

# REPORTS

OF THE

## TOWN OFFICERS OF MELROSE

FOR THE

FINANCIAL YEAR

ENDING DECEMBER 31, 1891.

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MELROSE :  
DUNTON & POTTER, PRINTERS, REPORTER OFFICE.  
1892.



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# TOWN OFFICERS FOR 1891-92.

## SELECTMEN.

LEVI S. GOULD, Chairman,

CHARLES W. HIGGINS.

JOHN P. DEERING,

## TOWN CLERK AND CLERK OF SELECTMEN.

JOHN LARRABEE.

## TREASURER.

GEORGE NEWHALL.

## COLLECTOR OF TAXES.

ADDISON LANE.

## ASSESSORS.

HENRY A. LEONARD, Chairman,	Term expires	1894.
JOHN R. NORTON,	"	1893.
DEXTER PRATT,	"	1892.

## WATER COMMISSIONERS.

WILBUR D. FISKE, Chairman,	Term Expires	1892.
WILLIAM H. MILLER,	"	1893.
GEORGE J. BICKNELL,	"	1894.

## WATER LOAN SINKING FUND COMMISSIONERS.

DANIEL RUSSELL, Chairman,	Term Expires	1893.
ROYAL P. BARRY,	"	1894.
JOHN W. FARWELL,	"	1892.

## SCHOOL COMMITTEE.

JOHN O. NORRIS, Chairman,	Term expires	1893.
MRS. SARAH W. BRADBURY,	"	1893.
JOHN C. MAKER,	"	1894.
MRS. ARETHUSA K. MILLER,	"	1894.
CHARLES F. LORING, (deceased)	"	1892.
MRS. A. B. P. WATERHOUSE,	"	1892.

## TRUSTEES OF THE PUBLIC LIBRARY.

ELBRIDGE H. GOSS, Chairman,

CHARLES A. PATCH, Treas.,

CHARLES C. BARRY,

MARY L. CHARLES, Secretary,

RUBY F. FARWELL.

## AUDITOR.

EDWIN C. GOULD.

## SUPT. OF STREETS.

WALTER B. ELLIS.

## OVERSEERS OF THE POOR.

HENRY G. FIELDS, Chairman,	Term expires	1894.
JOHN SINGER, JR.,	"	1893.
MRS. MARTHA D. BALE,	"	1892.

## BOARD OF HEALTH.

ERNEST S. JACK, M. D., Chairman,	Term expires	1894.
FRANK L. WASHBURN,	"	1893.
GEORGE W. BURKE, Secretary,	"	1892.

## TOWN OFFICERS FOR 1891-92.

## PARK COMMISSIONERS.

NATHANIEL P. JONES,	.	.	.	.	.	.	Term expires 1894.
WILLIAM N. FOLSOM,	.	.	.	.	.	.	" 1893.
GEORGE T. BROWN,	.	.	.	.	.	.	" 1892.

## REGISTRARS OF VOTERS.

ALFRED HOCKING, Chairman,	.	.	.	.	.	Term expires May 1, 1893.
WALTER BABB,	.	.	.	.	.	" " " 1892.
VICTOR C. KIRMES,	.	.	.	.	.	" " " 1894.
JOHN LARRABEE, Town Clerk,						

## CONSTABLES.

ANSEL B. PIERCE,	FRANK M. McLAUGHLIN,
OSBORNE E. DROWN,	C. F. W. FOGG.

## ENGINEERS OF FIRE DEPARTMENT.

A. WILBUR LYNDE, Chief,	ALBON W. PARKER,
SAMUEL LEAR, Clerk.	

## FOREST FIRE WARDS.

DEXTER PRATT, Chairman,	CHASE C. WORTHEN, Clerk,
CALVIN LOCKE.	JAMES MARSHALL,
HENRY BARRON.	

## MEASURERS OF WOOD AND BARK, WEIGHERS OF HAY AND COAL.

CHARLES B. GOSS,	SETH E. BENSON,	FRED M. GOSS.
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## COMMITTEE ON CEMETERIES.

GEORGE NEWHALL, Chairman,	DANIEL RUSSELL,
JOHN LARRABEE, Secretary.	

## FENCE VIEWERS.

DEXTER PRATT,	WALTER C. STEVENS.
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## FIELD DRIVERS.

OTIS HOWARD,	FRANK GIBBONS.
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## POUND KEEPER.

JOSEPH EDWARDS.	INSPECTOR OF BUILDINGS.
	DEXTER PRATT,

## INSPECTOR OF MILK AND SEALER OF WEIGHTS AND MEASURES.

FRANK M. McLAUGHLIN.

## POLICE OFFICERS.

## PERMANENT FORCE.

F. M. McLAUGHLIN, Chief,	OSBORNE E. DROWN.
JEROME T. SMITH,	WILLIAM A. CASWELL,
CHARLES F. W. FOGG,	REDFORD M. RAND.

## SPECIAL OFFICERS.

GEORGE E. FULLER,	JAMES DAVIDSON,
ALLSTON H. PINEO,	ANDREW W. McDONALD.
CHAS. H. FULLER,	A. WILBUR LYNDE,
JOHN W. DAVIS,	GEORGE W. BURKE,
WM. A. LIVINGSTON,	CEYLON S. DAVIS,
HERBERT H. ELMS,	JOSEPH D. LORD.

## REPORT OF THE SELECTMEN.

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*To the Citizens of Melrose :*

Your Board of Selectmen hereby respectfully report upon the various public matters specially confided to their care, as well as others demanding official attention during the past year.

### HIGHWAYS, DRAINAGE AND SIDEWALKS.

The general administration of the interests involved in these three items is readily the most important of any devolving upon your Board. It has been our earnest endeavor to so guard the expenditure of your money as to show in each department the best results. In this we have been ably assisted by the Superintendent of Streets, Mr. Walter B. Ellis, who has brought to the work his well-known energy, as well as an economic and skillful manipulation of men and material. As a result, our streets are constantly improving. With the continued use of our stone-crushing plant and steam roller, and similar skill in their management, it is safe to predict that a few years hence the streets of Melrose will be second to none in this Commonwealth. This condition ought to be reached

without any extraordinary increase over the appropriations of 1891. We desire to call the special attention of our citizens to the excellence of the work done on Wyoming avenue, Franklin, Emerson and Essex streets as examples of what can be accomplished by a judicious application of of the material we have at hand. The expense attending this method of treating our streets is detailed elsewhere and is much less, as we confidently assert, than can be shown by other municipalities which undertake to do similar work, while the work itself, especially on Essex street, is not excelled. Following the instructions voted by the town, we have caused to be published under appropriate headings and in detailed form "as near as may be" the amount expended for each street, for crossings and gutters, drainage, bridges, etc.; also for maintenance of stone-crusher, amount of material produced, etc. Each of these items show a smaller average of cost than had been predicted.

#### THE STONE CRUSHING PLANT AND STEAM ROLLER

Have proved an unqualified success, although the exceeding hardness of the ledge as it is opened up, makes it more difficult and expensive to break than when we were using the softer outside shell. This is, however, offset by the better quality of product, which will be more durable in a term of years and thus make up for the extra cost of breaking. By studying the detailed statement of product, cost, etc., it can be readily seen that we are producing the material for macadamizing cheaper than it can be bought elsewhere, and *keeping all the cost within our own town by paying it out to our own citizens in labor.* Figuring the Steam Roller at what we should have been obliged to pay had we hired one during the time it has been in commission, we

find that it has *more than paid for itself*, and in point of fact we have the machine to-day *absolutely free of cost* and with over \$100 in work to its credit.

Cost of Roller at Newport, R. I., . . .	\$ 600 00
Freight to Melrose, . . . . .	48 00
Expenses of Selectmen to Newport, . . .	18 50
“ “ F. G. Parker, engineer, to Newport, . . .	3 68
	<hr/>
	670 18
Paid out to engineer ( $79\frac{3}{4}$ days) . . .	199 37
Paid for coal, wood, oil, etc., . . . . .	185 47
	<hr/>
	1055 02
Less amount received from contractors East	
Middlesex Railway Co., . . . . .	84 86
	<hr/>
<i>Total net cost</i> , . . . . .	970 16
Credit by $79\frac{3}{4}$ days (less 8) = $71\frac{3}{4}$ days work	
at price paid for Steam Rollers when hired,	
at \$15 per day, . . . . .	1076 25
Earned by the Roller <i>besides its entire cost</i> ,	106 09

## WASHINGTON STREET.

With the surplus material taken from the macadamizing of Wyoming avenue the street and sidewalk have been rebuilt on Pleasant street south, to Gould street, and from that point on Washington street to the Fells school house.

This walk should be continued in the spring to the Malden line, and the Pleasant street sidewalk should also be continued from Gould street to the rubber factory.

## REPORT OF SELECTMEN.

## GROVE STREET DRAINAGE.

After a thorough examination of the troubles existing on Grove street, the Selectmen decided to construct six catch basins at different points between Gooch street and Dell avenue, connecting all with a 12-inch drain pipe, discharging into a tributary of Ell pond brook at said avenue. This section is now completely relieved of troubles heretofore existing at the corner of Lebanon street, which could be treated successfully in no other way. Other catch basins should be constructed on the corner of Gooch and Meridian streets, which when connected with the pipe above mentioned will complete a much needed improvement.

## SECOND STREET GRADE.

This matter having been referred to the Selectmen, said street has been put in condition, as requested by petitioners.

## SWAIN'S POND CIRCUIT, ELECTRIC LIGHTS.

In accordance with your vote, the Selectmen have caused to be placed "where needed in the southeasterly section of the town" a circuit of forty incandescent lights.

## PORTABLE BAND STAND.

Agreeable to your instructions, we have constructed a portable band stand which was in use during the season by our local band.

## TOOL SHED.

As ordered, we have constructed a convenient shed on

the rear of the Town Hall lot, in which are deposited the steam roller and various other tools and vehicles used by the Highway department.

#### CATCH BASINS AND DRAINS.

We respectfully request the attention of citizens to the excellent showing made in this department, all of which will be found minutely tabulated and detailed in its appropriate place. Continuance in this very important work is desirable, as many sections can be properly treated by no other method. The luxury of dry streets where pools of water have heretofore existed must be appreciated by all.

#### GRANITE CROSSINGS.

All crossings provided for by your orders to this Board have been laid except the one across Main street at foot of Mt. Vernon street.

#### STREETS ACCEPTED.

The following streets have been laid out and accepted by the town, viz :

Extension of Walton Park to Franklin street.

“ “ Highland street.

“ “ Summit avenue.

“ “ Grove street, easterly.

#### WALTON PARK.

The contractor, Mr. John Duff, having failed to build this



street to the acceptance of the Selectmen we declined to settle a balance claimed, and finished the street in other ways, paying for the same out of moneys retained on account of the contract. The action of the contractor in this case was a source of much annoyance to the public as well as trouble to the Board.

#### EXTENSION OF PERKINS STREET TO STONEHAM LINE.

In accordance with your instructions, the Selectmen appeared before the County Commissioners and requested a stay of proceedings for the term of five years as you directed. No reply has been received up to this date.

#### MAIN STREET WIDENING.

The town has received no official order regarding this matter, but inasmuch as the Commissioners have quite recently set stone boundary posts within the limits of private property from Mount Vernon to Green street, it is reasonable to suppose that the various protests of the town as voiced by your Selectmen, have had no effect upon the Hon. Board of County Commissioners and that the widening is as good as ordered.

#### DISCONTINUANCE OF CHURCH STREET, A PORTION OF UPHAM STREET.

A hearing upon this subject was ordered by the County Commissioners at the Selectmen's room June 10th, 1891. Inasmuch as this was never a county road, and the town, some years since refused to discontinue it, the Board of Selectmen were successful in convincing the Hon. Board of



County Commissioners that this was a matter over which the county had no jurisdiction. The petition was dismissed.

#### TOWN HALL.

The outside wood-work of the hall has been repaired and painted during the last season, as it was in a very bad condition. We wish to call attention to the new and beautiful vane which surmounts the tower. It is the gift of William Bailey, Esq., one of our oldest and most respected citizens, who paid all cost connected with its purchase and placing in position.

#### STEAM RAILROAD TO STONEHAM.

A location has been granted by this Board for a branch road from the Boston & Maine R. R. at the Fells station to the town of Stoneham. No streets will be crossed at grade.

#### PERMITS GRANTED.

To the East Middlesex Street railway, a double track from Malden line to Mt. Vernon street.

To the East Middlesex Street railway permission to operate road by electricity.

To the New England Telephone & Telegraph Co., line of poles from Wyoming avenue to Wakefield on the Main street, making a through line which will be of great public benefit when completed.

To the Melrose club, the Melrose Highlands club and the Athletic club each to erect bowling alleys, under special restrictions in each case.

## SUITS VS. TOWN.

A. V. Lynde for action of the Water Commissioners at Spot pond.

D. L. Taylor claim for water damages to his green-house. These will be contested.

Norris D. Sterry who commenced suit for damages caused by slipping on the ice, committed suicide before the case came to trial. Death ends it.

The case of F. A. H. Norcross for the death of horse by being driven out of the highway into a pool of water and drowned, has been abandoned.

## DAMAGE CASES SETTLED.

J. H. Bowen, damages to horse, carriage and person on Howard street, \$40.

H. C. Richardson, damages to wagon on highway, \$7.50.

Thomas Cassells, damages for removing house in widening Park street, \$100.

Thomas P. Bond, damages for removal of wall, embankment, etc., corner Main and Short streets, \$150.

## LABORERS UPON HIGHWAYS, ETC.

In accordance with your vote preference has been given to citizens and tax-payers as laborers upon highways, and the pay for able-bodied men has been \$2 per day. Others are graded in accordance with their working capacity. Teams have been raised to \$1.75 each horse.

## SEWALL WOODS.

The transfer of about nine acres of woodland, adjacent to

Perkins and Vinton streets, in its natural state, formerly belonging to our distinguished fellow-citizen, the late Hon. Samuel E. Sewall, for the purpose of a public park to be known as Sewall Woods, has been completed, through the public spirit of Mrs. Edward C. Cabot of Brookline, a daughter of Mr. Sewall. The town having accepted this gift at a previous meeting, it will be necessary to appropriate a sum sufficient to build the roadway around said park which is a condition named in the deed. With light annual appropriations for the purpose of keeping this street in repair and the underbrush trimmed up, this park will remain as it is, one of the most lovely spots of its size in all New England. Appended will be found a copy of the conveyance of Sewall Woods to the town.

*KNOW ALL MEN BY THESE PRESENTS:*

That we, Edward C. Cabot of Brookline, in Norfolk county, and Commonwealth of Massachusetts, and Louisa S. Cabot, wife of said Edward C. in her right, in consideration of the desire of said Louisa that the land hereinafter described shall be held and maintained as a public park in memory of her father, the late Samuel E. Sewall, who occupied and preserved it for many years, and in accordance with the wishes of her late sister, Dr. Lucy E. Sewall, and in further consideration of the sum of one dollar to us paid by the inhabitants of the town of Melrose, a municipal corporation, the receipt whereof is hereby acknowledged, do hereby grant, remise, release and forever quitclaim unto the said inhabitants of the town of Melrose, two certain parcels of land, situated in Melrose, in Middlesex county, and said Commonwealth, and the same shown on a "Plan of Sewall Woods, Melrose" by Walter C. Stevens, C. E., dated November, 1891, to be recorded herewith, the first of which is bounded as follows: Beginning at a point on the north-easterly line of Perkins street, at the dividing line

between the Sewall homestead lot and land hereby conveyed, and thence running northeasterly by said homestead one hundred four and forty one-hundredths feet (104.40 ft.); thence southeasterly by said homestead, two hundred and ten feet (210 ft.); thence northeasterly by said homestead, three hundred and thirty-two and sixty-seven one-hundredths feet (332.67 ft.); to the new road shown on said plan, called Sewall Woods road; thence by said road, northwesterly by four courses seven hundred and fifty-seven and sixty-nine one-hundredths feet (757.69 ft.); thence by said road, in a generally westerly direction by three courses, two hundred fourteen and thirty-four one-hundredths feet (214.34); thence by said road southwesterly by three courses, six hundred thirty-five and three one-hundredths feet (635.03 ft.); thence by said road in a generally southerly direction, by five courses, three hundred fifty-seven and eighty-one one-hundredths feet (357.81 ft.), to said Perkins street; thence southeasterly by said Perkins street, one hundred six and seventy-four one hundredths feet (106.74 ft.) to the point of beginning, and containing about nine (9) acres of land, be the same more or less.

The second parcel is situated westerly of the first above described, and is bounded as follows: Easterly by said Sewall Woods road; northerly by other land of grantor; and westerly and southerly by land of J. H. Buffum. Intending also to convey to said grantees said Sewall Woods road as shown on said plan, to be held by said grantees for all the usual purposes of a public street or way.

To have and to hold the afore granted premises with all the privileges and appurtenances thereto belonging, unto the said inhabitants of the town of Melrose, to their own use and behoof forever, but to be forever kept open and maintained as a public park or parks, to be known as Sewall Woods and to be held and maintained under the provisions of chapter 154 of the Acts of said Commonwealth made in the year 1882, entitled "An Act authorizing towns and cities to lay out public parks within their limits," and such amendments, substitutes and additions thereto and therefor as have been or may hereafter be made by the

Legislature of said Commonwealth. And this conveyance is made upon the the following express conditions:

First. That said town of Melrose shall at the next annual town meeting appropriate the necessary funds for building the said Sewall Woods road, located and shown on said plan, and

Second. Shall within one year from said town meeting, cause said road to be built in a good workmanlike manner, and to be accepted by said town as a public way and opened for public use, and

Third. That no betterment or assessment shall be laid upon other real estate of said Louisa S. Cabot, abutting on or near said Sewall Woods road, on account of said woods or of said road, additional to the usual and ordinary taxes assessed on the real estate of the property owners in said Melrose.

And said grantor, Louisa S. Cabot, hereby expresses her wish, but not intending the same to be a condition or restriction, that none of the trees on said premises shall be cut down unless decayed or that it shall be considered necessary so to do for the benefit of the remaining ones, or for the benefit of the public use of said woods and that the woods shall be maintained as far as possible, or reasonable in their present wild condition.

And we do hereby for us and our heirs, executors and administrators, covenant with the said grantees, that the granted premises are free from all encumbrances made by us, and that we will and our heirs, executors and administrators shall warrant and defend to the said grantees forever, against the lawful claims and demands of all persons claiming by, through or under us, but against none other.

In witness whereof, we, the said Edward C. Cabot and Louisa S. Cabot, have hereunto set our hands and seals this first day of January, in the year eighteen hundred and ninety-two.

In presence of,                      EDWARD C. CABOT. (Seal.)  
   LOUISA S. CABOT. (Seal.)

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COMMONWEALTH OF MASSACHUSETTS.

Suffolk, ss :

January 18th, 1892.

Then personally appeared the above named Louisa S.

Cabot, and acknowledged the foregoing instrument to be her free act and deed. Before me,

GEO. A. DARY,  
Justice of the Peace.

#### REPORTS.

Attention is called to the reports of the Inspector of Buildings and the Chief of Police, each of which will furnish information of interest.

#### ELL AND SPOT POND BROOKS.

These very important public improvements have progressed as far as the appropriation at our command would allow. The work on Spot pond brook has been completed under contract with Edward L. Whittier. All culverts on the line of this brook, to and including Wyoming avenue are now widened to eight feet, being the width established by the County Commissioners under the act of 1869. The water is now flowing freely and there will be no further trouble as long as the channel is kept open. The benefits to the entire section tributary to this brook cannot be estimated. At the very last moment the parties to whom we awarded the contract to do the work on Ell pond brook declined to sign and it became necessary for the Superintendent of Streets to go on with it. This he did in a thoroughly business and workmanlike manner, and the result is that the culverts on Main, Grove and Berwick streets have been widened to twelve feet in the clear, while the brook itself has been dredged out to about 24 inches deeper than before, giving the water that amount of extra fall. The vote under which the Selectmen were clothed with authority to commence this work, read in part as follows, viz: "To secure by all proper means the enlargement, if deemed necessary



by them, of the culvert under the Boston & Maine Railroad, and of the brook and drain under any building or erection within the lines of the layout by the County Commissioners, etc." Negotiations were early commenced by the Chairman of your Board, into whose hands the entire subject matter has been placed by his associates, with the Boston & Maine R. R., but a series of vexatious delays occurred, so that the work was not commenced on the culvert at Wyoming until winter had set in, much to the annoyance and inconvenience of the public. We have however to say that the railroad is doing a magnificent job, at their own expense, which when finished will last for generations. The Chairman also opened negotiations with Ira Hiland of Boston, owner of the store at Wyoming occupied by L. W. Gilman, under which Ell pond brook runs. As a result Mr. Hiland agreed to pay the sum of \$350, being the estimated cost of widening, deepening, etc., under said store, subsequently requesting additional work done, and agreeing to pay whatever the cost might be. On presenting the bill, however, much to the surprise of your Board, he ignored every agreement, although his name was signed to pay the sum of \$350 and there was nothing left except to commence proceedings in law, which have been instituted for the recovery of this honest indebtedness. Your vote also directed us "to request and secure by all proper means the removal of all obstructions in said brook and drain within the city of Malden."

Acting under these instructions your Board of Selectmen were granted a hearing by the city government of Malden, the result of which is best expressed in the following communication :

CITY HALL, MALDEN, December 1st, 1891.

*To the City Council:*—The Joint Standing Committee on claims, to which was referred the communication of the

Selectmen of the town of Melrose in reference to alleged obstructions in, and the enlargement of Spot pond brook, gave a hearing to the said Selectmen who appeared before said committee, and were fully heard as to the matters contained in said communication. Said committee submits the following report:

Chapter 378 of the Acts of 1869, authorized and directed the County Commissioners of the County of Middlesex, to change, widen, straighten and deepen the channels of the streams or brooks running from Ell pond in Melrose, and Spot pond in Stoneham to the tide water in Malden, as they should deem necessary for the purposes of proper drainage and the public health. The Act further authorized the Commissioners to assess upon every person holding real estate upon or near said brooks, which might be benefited by the Acts of the Commissioners, his proportionate share of the expenditure for the purposes aforesaid, and also to determine and award what proportion of the whole expenses incurred for the purposes aforesaid should be assessed upon the Boston and Maine railroad, and what proportion upon the towns of Malden and Melrose respectively. Pursuant to the provisions of the Act, the Commissioners proceeded to consider the matter, gave a public hearing, determined what was necessary to be done, and appointed Albert F. Sargent of Malden and Jeremiah Martin of Melrose agents to superintend the work. Albert F. Sargent for said agents reported to the Commissioners that said agents had proceeded according to directions and caused the dam at Odiorne's pond to be taken down, and the drains to be widened, straightened, and excavated at the expense of \$7,115.60, of which the town of Malden had paid \$3,670.05, and the town of Melrose, \$3,445.55. He also reported the location of the drains as set forth in the communication of the Selectmen of Melrose. This report was adopted by the County Commissioners, and made a part of their report. They assessed the betterments, and apportioned the costs, making the share of costs for Malden \$3,165.05, and ordered that the town of Malden keep in repair and maintain that part of the drain within the limits of that town, and Melrose



to maintain and keep in repair that part within the limits of the town of Melrose. The drains as originally constructed were not of the width laid out by the Commissioners. They were evidently laid out of sufficient width to leave a strip of land on each side to enter upon for the purpose of keeping the drains in repair. In the year 1890, the town of Melrose petitioned the County Commissioners to proceed and have the drains constructed of the width originally laid out, claiming that they had not completed their duties or exhausted their powers under the Act of 1869. The Commissioners gave a hearing at which the city of Malden appeared and claimed that the powers of the Commissioners under the act were at an end when they completed their work, and made their report of their doings already referred to. The Commissioners took the matter under advisement, concluded that this claim of the city of Malden was well founded, and declined to take further action.

The drains within the limits of Malden are substantially in the same condition, that they were when the Commissioners completed their work. The Selectmen of the town of Melrose in their very able and candid presentation of their case, while claiming that the drains within the limits of Malden have become to some extent obstructed, admitted that the complete restoration of the drains to the width and depth in which they were left by the Commissioners, would not be satisfactory or afford the relief required. They claimed that the large increase of population, and the laying out and grading of new streets in Melrose had largely increased the flow of surface water, which finds an outlet through these drains. That the land through which they are located between the occupied portions of Malden and Melrose which in its natural condition was a swamp and of no value when these drains were constructed, had been cleared and drained so far as circumstances would permit, and, if thoroughly drained, so as to make it suitable for sites for dwelling houses, would probably soon be in demand for that purpose.

The construction of these drains of the width and depth required to completely drain these unoccupied lands, and

make them suitable for dwelling houses, would require a large expenditure within the limits of this city. If it were possible to make them of sufficient width and depth above Mountain avenue to accomplish the result desired without enlarging the brook south through the land of Mr. Cochrane, and rebuilding and enlarging the culverts under Mountain avenue and Pleasant street, and increasing the capacity of the brook below Pleasant street, the enlargement would cause such a rush of water in times of freshets, that the buildings of Mr. Cochrane and the buildings in the square would undoubtedly be endangered and their contents destroyed or greatly damaged. The verdict obtained by Mr. Cochrane against the city for a large sum was set aside upon the ground, that the city in constructing these drains and the culvert under Pleasant street had complied with the requirements of the Commissioners, and was not in fault if the drain and culvert under Pleasant street were not sufficient. The court said "it is very clear that the town of Malden was not obliged to provide a passageway across the highway for water brought artificially to it by riparian proprietors on the streams above, whether brought by a separate channel or mingled with the natural waters of the streams, nor to provide for occasional unnatural volumes of water caused by artificial changes in the channel of the streams by said proprietors. *Cochrane v. Malden*, 152 Mass., 365. It follows necessarily, that if the city or any one else should enlarge the drains as constructed by order of the Commissioners, and thereby cause an unnatural flow of water from which damage should result, the city or any one else concerned in making the enlargement would be answerable for the damages caused by the enlargement. The only safe course for the city would be to make the work so complete and thorough that there would be no possible danger in times of freshet, and this would necessarily require a large expenditure.

The real purpose of this enlargement and deepening of these drains is to make lands which in their natural condition have no value, salable and valuable. These lands are mostly within the limits of the town of Melrose. The ex-

pense of enlarging these drains within the town of Melrose would be small compared with the expense within the limits of the city of Malden. It is just and equitable that the lands which will be benefited by the improvement should bear a large proportion of the cost of the improvement, if not the entire cost. No assessment of betterments could be made upon the parties benefited without additional legislation of a character similar to the Act of 1869. Such legislation would relieve the city of Malden and the town of Melrose from the consequences of any mistake in laying out and adopting a plan for making the desired improvement, and would provide a way for making an equitable apportionment of the cost and expense among all the parties interested and benefited.

The committee therefore recommend the adoption of the accompanying order.

E. M. WHITTLE.

For the Committee.

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MALDEN, Dec. 11, 1891.

His Honor the Mayor has approved Order No. 393, Current Series. Below please find a copy.

*Ordered:* That upon careful consideration of the requests contained in the communication addressed by the Selectmen of the town of Melrose to the City Council of Malden, and of the facts and reasons bearing upon said requests as set forth in the report of the Joint Standing Committee on claims to which the said communication was referred for the purpose of giving a hearing to the Selectmen of the town of Melrose, and making careful inquiry into all the facts bearing upon said requests, it appears that the city of Malden cannot with due regard to the interests of the city comply with the requests, so far as they require that the drains as constructed by the County Commissioners under the Act of 1869, be enlarged, and that the City Council therefore respectfully declines to accede to said requests.

And it is further ordered that the City Clerk transmit to the Selectmen of Melrose a copy of this order, and of said report of the Joint Standing Committee on claims, as the answer of the City Council to said communication.

Attest:

LEVERETT D. HOLDEN,

City Clerk.

From the foregoing it is quite evident that our neighboring municipality will not in any way take action to relieve either the town of Melrose, or those citizens of Malden, *of whom their greatest public benefactor is one*, whose interests are jeopardized by such inaction, unless they can obtain such legislative action as will allow them to assess "*a large proportion if not the entire cost*" upon those whom it is their bounden duty to relieve rather than to distress.

To continue the work of widening from Main street to Ell pond will require an appropriation at the annual meeting. When this work is completed, it is not at all likely that there will be further trouble from flowage, except in the section near the rubber works, where the narrowness and general bad condition of the brook in Malden sets the water back to the detriment of much valuable territory in both municipalities. In dismissing this subject, it is well to say, in reply to the exhaustive report of the committee above quoted, that the present Board of County Commissioners examined these drains in company with the Selectmen in the fall of 1890, and it was their opinion, as expressed in so many words, that not only did the Commissioners of 1871 lamentably fail in carrying out their own order through the committee appointed by them, viz: A. F. Sargent and Jeremiah Martin as regards "deepening, widening, and removal of obstructions necessary for the purpose of proper drainage and of the public health," but that the city of Malden were not executing the orders of said Board "*to keep in repair and maintain*" such portions of said brook as laid in their territory. Furthermore it was patent on careful examination, that the city of Malden was allowing the owner of the first dam to maintain a flash-board so high as to cause slack water in the territory above. An appeal to the Commissioners to cause said city to perform its

bounden duty resulted in *referring the town of Melrose to the Legislature or to the Courts for relief*. It is apparent that nothing can be expected in any other direction.

#### NORTH METROPOLITAN SEWER.

The Chairman of your Board attended all sessions of the Commissioners appointed to assess the proportions of each town and city interested, using his best efforts in behalf of a just and equitable system of apportionment. Such a method we are pleased to say was adopted, and we believe the town's proportion for the coming five years to be reasonable and fair. The report of the Commissioners upon the same will be found elsewhere in this report, for which see index.

The town should authorize a survey in the near future, to determine the cost of local sewerage to connect with the main system, which will be finished within the coming eighteen months, probably.

#### AMENDMENTS TO THE AUSTRALIAN BALLOT ACT.

Through an act of the last Legislature, a cumbersome, unwieldy and entirely unnecessary amendment was tacked on to the law (presumably by parties who never had any experience as tellers) requiring a double count by different persons. This of course, takes double the time, and is of no practical value, as any person aggrieved still has the right to claim a recount. This entirely useless appendage to the law kept our town officers continually in session at the November election, from 7 a. m. until 2 a. m. of the following day. It ought to be repealed.

#### SUPPRESSION OF THE LIQUOR TRAFFIC.

It has been the aim of this Board to stamp out the illegal sale of liquor wherever it is known to exist. To this end

the work of the Chief of Police and his force has been actively exerted. These officers are constantly on the alert and no quarter is given to offenders. Too many, however, convicted in the lower court, escape the penalty of their crime through an appeal to a jury trial, where sufficient sympathy in this nefarious traffic is found in many cases to prevent conviction. What the community needs is a sturdy public sentiment, permeating every home which shall set its face sternly against malefactors of every class where crime is fairly proven. When this is accomplished it matters not who sits in the jury-box, justice will be meted out.

No appropriations over which we have control have been exceeded.

Thanking our fellow citizens for their uniform courtesy in the oftentimes difficult official problems with which we are confronted, we are respectfully,

LEVI S. GOULD,	{	Selectmen
J. P. DEERING,		of
C. W. HIGGINS,		Melrose.



# RECORD OF TOWN MEETINGS IN 1891.

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## WARRANT FOR MEETING

FEBRUARY 16, 1891.

*To either of the Constables of the Town of Melrose, in the  
County of Middlesex: GREETING.*

In the name of the Commonwealth of Massachusetts, you are hereby required to notify the inhabitants of the town of Melrose qualified to vote in elections and town affairs, to meet at the Town Hall on Monday, the sixteenth day of February, A. D. 1891, at 7.30 o'clock p. m., then and there to act on the following articles, viz :

Article 1. To choose a Moderator.

Art. 2. To see if the town will accept the provisions of Chapter 386 of the Acts of 1890, entitled, "An act to authorize the printing and distributing of ballots for town elections at the public expense, known as the Australian ballot law made applicable to town elections," on petition of 25 citizens.

Art. 3. To see if the town will accept any existing provisions of law in relation to the number and terms of town officers and to determine what officers, if any, not required by law to be chosen by ballot, shall be so chosen, also the number and terms of such officers, as prescribed in Section 2, Chapter 386, Acts of 1890, on petition of 25 citizens.

Art. 4. To see if the town will vote that in the matter of employing laborers in the several departments of the town preference shall be given to persons who are citizens and taxpayers, on petition of 62 citizens.

Art. 5. To see if the town will pay to the laborers employed in the various departments, the sum of two dollars per day, on the petition of 13 citizens.

Art. 6. To see if the town will vote to petition the Legislature for authority to build a gas or electric light plant or both, with authority to manufacture and sell light for public and private use, by request of the committee on electric lights.

Art. 7. To see if the town will alter, amend and annul certain sections of the By Laws which relate to the duties of town officers.

Art. 8. To see if the town will authorize the Treasurer to pay certain bills necessarily contracted on account of street lights, school contingent, general contingent, fire department and poor fund by request of the town treasurer.

Art. 9. To see what action the town will take in regard to the proposed widening of Main street by the County Commissioners, on petition of 16 citizens.

Art. 10. To see if the town will revise the water rates, on petition of 11 citizens.

Art. 11. To see if the town will take any action regarding the widening and straightening of Spot and Ell pond brooks, and petition the Legislature for such legislation as may be deemed necessary.

Art. 12. To see what action the town will take on the petition of Nancy W. Barber for compensation for draining her premises on Warren street, Melrose Highlands.

Art. 13. To see if the town will authorize the school committee to establish a public evening school.

Art. 14. To hear and act upon the reports of committees and for the transaction of any other business which may legally come before this meeting.



And you are directed to serve this warrant by posting attested copies thereof at the Town Hall, each of the post-offices and depots in the town, not less than seven days before the day appointed for said meeting, and by leaving printed copies of the warrant at the dwellings of the legal voters before the day of the meeting. Hereof fail not and make due return of this warrant with your doings thereon, to the Town Clerk, at the time and place of said meeting. Given under our hands this third day of February, in the year one thousand eight hundred and ninety one.

LEVI S. GOULD, } Selectmen  
J. P. DEERING, } of  
C. W. HIGGINS. } Melrose.

Warrant served by

ANSEL B. PIERCE, Constable.

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*Meeting, February 16, 1891, 7.30 P. M.*

Art. 1. Chose Levi S. Gould, Moderator.

Art. 14. Report of committee appointed November 18, 1890, to examine into the different systems adopted by other towns for the transaction of town business received and accepted.

Art. 2. Australian ballot law made applicable to town elections.

*Voted*, Unanimously, that the town accept the provisions of Chap. 386, Acts of 1890, as amended by the Legislature of 1891.

Art. 3. Assessors and Overseers of Poor.

*Voted*, Unanimously, that the town accept the provisions of Chap. 27, of the Public Statutes as embraced in Sections 65, 66, 67 and 68, relating to the election of a Board of Assessors.

*Voted*, Unanimously, that the town accept the provisions of Chap. 27 of the Public Statutes as embraced in Section 69, 70, 71, 72 and 73, relating to the election of a Board of Overseers of the Poor.

Art. 7. By Laws.

*Voted*, Unanimously, that the recommendations of the committee in relation to a change in the By Laws be adopted and that the By Laws be altered and amended as follows:

By striking out Section 4, Article 2 as accepted March 24, 1890, and inserting in place thereof a new section to be known as Section 4 of said Article 2.

Section 4. Article 2. All bills due from the town, after being approved by the Board or Committee contracting the same, shall be forwarded to the Auditor, except as hereinafter provided, and an order shall be drawn by the Auditor on the Treasurer, specifying the appropriation against which the same is drawn, for the payment of all bills so approved. But in case the Auditor shall find a clerical error in any bill, such bill shall be returned by him to the Board or Committee approving the same, for correction. All bills contracted by the officers appointed by the Selectmen, or by special committee appointed by the town, shall be approved by such officers or committee, and also by the Selectmen, who shall forward the same to the Auditor.

No order shall be drawn by the Auditor upon the Treasurer against any appropriation in excess of such appropriation, except such as are authorized by statute law, and no money shall be paid out by the Treasurer, except for State and County taxes, interest or principal on any town debt, or execution issued against the town, without an order from the Auditor. The Auditor shall examine

at least once a week all bills presented for approval, and shall keep a book showing the different appropriations and the amounts thereof, also the amounts of the orders drawn by him against the different appropriations, and shall report to the different boards and committees on the first Monday of every month the condition of the appropriation under the supervision of said boards and committees, and shall also report to such boards and committees when any of such appropriations are exhausted.

*Voted,* Also to amend Section 10 of said Article 2 by striking out the words "three auditors" and inserting in place thereof the words "one auditor," and by striking out the last two words in said section, viz: "by statute," so that said section as altered and amended shall read:

Section 10. There shall be chosen at the annual meeting, one auditor, who shall perform the duties prescribed.

The above amendments were duly presented to the court for approval with the following result:

COMMONWEALTH OF MASSACHUSETTS.

Middlesex, ss:

Superior Court.

I hereby certify that a petition for approval of By Laws of town of Melrose was filed in said court and presented to the Chief Justice thereof on the twentieth day of March A. D. 1891, and on the third day of April A. D. 1891, said By Law was disapproved and the following memorandum endorsed on said petition.

"The duties of town auditors are prescribed by Statute.—If this by-law only affirms the duties prescribed by Statute it is unnecessary. So far as it assumes to do more it would be inoperative."

Disapproved.

Attest,

Signed,

ALBERT MASON,  
C. J. S. C.

WM. C. DILLINGHAM,

Ass't Clerk.

Art. 3. *Voted*, That the town elect by ballot, under the provisions of law which have been accepted, the following officers, the number of each Board and terms of office of which shall be as follows: A board of Selectmen consisting of three persons to be elected annually, one Town Clerk, one Treasurer, and one collector of taxes, to be elected annually, a board of three Assessors to be elected as provided by chapter 27, section 65, 66, 67 and 68 Public Statutes, a board of Water Commissioners consisting of three persons, one of whom shall be elected annually for 3 years, a board of Water Loan Sinking Fund Commissioners, consisting of three persons, one of whom shall be elected annually for 3 years, a School Committee consisting of six persons, two of whom shall be elected annually for three years, a board of Trustees of the Public Library consisting of five persons to be elected annually, one Auditor to be elected annually, a board of Overseers of the Poor consisting of three persons to be elected as provided by Chapter 27, Sections 69, 70, 71, 72 and 73 Public Statutes, a Board of Health consisting of three persons to be elected for the current year, one for 3 years, one for 2 years, and one for 1 year, and annually thereafter there shall be elected one person for 3 years, a board of Park Commissioners consisting of three persons, one of whom shall be elected annually for 3 years, and four Constables to be elected annually.

Art. 14. Almshouse.

*Voted*, That a committee of three persons be appointed to consider the use and occupancy of the buildings and a portion of the Pratt farm for an almshouse, and that they be instructed to report at the annual meeting in March next. Committee, Thomas W. Ripley, Seth E. Benson, Daniel Norton.

Arts. 4 and 5. Laborers.

*Voted*, That a committee of five be appointed by the chair to consider the subject matter contained in Articles 4 and 5 of the warrant and report upon the same at the March meeting. Committee, John J. McCullough, Moses Briggs, John O. Norris, Walter Babb, Moses S. Page.

Art. 6. Electric light, special committee, etc.

*Voted*, That the town by this vote signifies its approval of the petition presented to the House of Representatives by the chairman of the committee on electric lighting, wherein a special act of the Legislature is requested, giving the right to manufacture and sell gas or electricity or both, and that a special committee of five to urge the passage of such a bill shall be appointed by the moderator and that the chairman of the Board of Selectmen, Hon. W. E. Barrett and Hon. B. M. Fernald shall be named as three of the committee.

Committee appointed, Levi S. Gould, W. E. Barrett, B. M. Fernald, Charles H. Lang and Charles F. Loring.

*Voted*, Unanimously, that the town endorse the petition for a general law allowing towns and cities to establish and maintain gas or electric light plants now before the Legislature.

Art. 8. Treasurer authorized.

*Voted*, Unanimously, that the treasurer be authorized to pay bills contracted during the year 1890, viz: On account of support of poor, \$1140; street lights, \$300; contingent expenses, \$175; school contingent, \$1440; fire department, \$270; total, \$1,325; said amount to be raised with the annual appropriations for the year 1891.

Art. 9. Main street widening.

*Voted*, That the Selectmen be authorized to attend the meeting of the County Commissioners on February 27,

and oppose the proposed widening of Main street, and secure if possible, the withdrawal of the plan to so widen it.

Vote—Aff. 157; neg. 78.

Art. 10. Water rates.

*Voted*, That a committee of five be appointed to thoroughly revise the water rates, and report at a future meeting, as soon as possible. Committee, George L. Morse, John W. Farwell, George W. Burke, Royal P. Barry, John E. Marshall.

Art. 11. Ell and Spot pond brooks.

*Voted*, To indefinitely postpone.

Vote—Aff. 93; neg. 81.

Art. 12. Petition of Nancy W. Barber.

*Voted*, To indefinitely postpone.

Art. 13. Evening school.

*Voted*, That the School Committee be authorized to establish a public evening school and that \$750 be appropriated and that the Finance Committee be instructed to report that amount to be raised in the tax levy of 1891.

Art. 14.

*Voted*, That the Selectmen be instructed to place the flag on the Town Hall at half-mast and that the School Committee be instructed to cause the flags on the school buildings to be also placed at half mast, and that they so remain until after the funeral of General William T. Sherman.

Voted to adjourn.

WARRANT FOR ANNUAL MEETING,  
MARCH 2, 1891.

*To either of the Constables of the Town of Melrose, in the  
County of Middlesex:* GREETING.

In the name of the Commonwealth of Massachusetts, you are hereby required to notify the inhabitants of the town of Melrose, qualified to vote in elections and town affairs, to meet at the Town Hall, on Monday, the second day of March, A. D. 1891, at 7 o'clock, a m., then and there to act on the following articles, viz:

Article 1. To choose a Moderator.

Article 2. To bring in their votes for town officers, and in answer to the question, "Shall licenses be granted for the sale of intoxicating liquors in this town?" All ballots are to be furnished by the town, and will be distributed at the polls by officers duly appointed, as provided by Chap. 386, Acts of 1890, as amended by the Acts of 1891, recently accepted by the town. Polls to be kept open until 5 p. m.

Art. 3. To choose any other town officers deemed necessary or required by law.

Art. 4. To authorize the Town Treasurer to borrow money for the purpose of meeting the demands of the town, with the approval of the Selectmen.

Art. 5. To raise money for Schools.

Art. 6. To raise money for School Contingent Expenses.

Art. 7. To raise money for Highways.

Art. 8. To raise money for Sidewalks.



- Art. 9. To raise money for Crossings and Gutters.
- Art. 10. To raise money for the Support of the Poor.
- Art. 11. To raise money for the Fire Department.
- Art. 12. To raise money for lighting and care of Street Lights.
- Art. 13. To raise money for additional Street Lamps.
- Art. 14. To raise money for Police and Watchmen.
- Art. 15. To raise money for Contingent Expenses.
- Art. 16. To raise money to pay interest on the Town Debt.
- Art. 17. To raise money for the Reduction of the Town Debt.
- Art. 18. To raise money for the Public Library.
- Art. 19. To raise money for the use of Water, in hydrants, public buildings, etc.
- Art. 20. To raise money for the relief of needy soldiers and sailors as provided by Chap. 298, Acts of 1889.
- Art. 21. To raise money for the Salaries of Town Officers, and to fix the compensation of all officers and committees elected or appointed by the town.
- Art. 22. To raise money for Drainage, Bridges and Culverts.
- Art. 23. To raise money for the purposes for which the Treasurer has been authorized to borrow and the Selectmen to expend during the past year, and for any other necessary expenses for the ensuing year.
- Art. 24. To determine the method by which the taxes for the year shall be collected.
- Art. 25. To authorize the Town Treasurer to issue Water Bonds for the purpose of paying the cost of construction for the ensuing year.
- Art. 26. To see if the town will raise the sum of \$200 for keeping in repair and decorating the graves of Soldiers on Memorial Day.



Art. 27. To see if the town will raise money to grade and improve the "Soldiers' Lot" in Wyoming Cemetery, as set apart by the Selectmen.

Art. 28. To see if the town will place edgestones on Main street when macadamized, and assess abutters one-half the expense of the same.

Art. 29. To see if the town will build and finish Washington street as laid out and ordered by the County Commissioners and raise money for the same, on petition of 21 citizens.

Art. 30. To see if the town will put in catch basins at the junction of Main and Grove streets, and build a gravel sidewalk on the north side of Grove street, from Main street to Dell avenue, and raise money for the same, by request of Justus Geist.

Art. 31. To see if the town will place three or four electric lights on Swain's Pond avenue, from the Malden and Melrose line, running towards Swain's Pond, on petition of 12 citizens.

Art. 32. To see if the town will appropriate money for the building of a portable band stand, to be used at open air band concerts, on petition of 13 citizens.

Art. 33. To see if the town will authorize the purchase of a sufficient number of covers, for the protection of merchandise, furniture, etc., to be used by and under the control of the Fire Department, and raise money for the same, on petition of 23 citizens.

Art. 34. To see if the town will revise the By-Laws and alter and amend the same, as suggested by the Inspector of Buildings and the Board of Health, in their reports.

Art. 35. To see what action the town will take in the matter of widening, deepening and straightening Ell Pond brook, enlarging the culverts over the same, and removing

any and all obstructions now existing therein, and raise money for the same, on petition of 23 citizens.

Art. 36. To see if the town will properly grade Second street from Lebanon street to Larrabee street, and build a gravel sidewalk on the south side of said street, from Lebanon street to Gooch street, and raise money for the same, on petition of 10 citizens.

Art. 37. To see if the town will build a culvert across Grove street near Gooch street, to receive water now overflowing and running in the street, and raise money for the same, on petition of 24 citizens.

Art. 38. To see if the town will accept the following streets as laid out by the Selectmen and raise money for the building and grading of the same, if necessary :

1. Street leading from Orris street to Franklin street.
2. Street running northwesterly from Franklin street, the same being a continuation of Ashland street.
3. An extension of Highland street westerly to street known as Chipman avenue.
4. Street now known as Chipman avenue, running northerly from Franklin street.
5. An extension of Summit avenue from Botolph street to a point opposite the estate of J. T. Nowell.
6. An extension of Grove street, easterly.

Art. 39. To hear and act upon the reports of committees, and for the transaction of any other business which may legally come before this meeting.

And you are directed to serve this Warrant by posting attested copies thereof at the Town Hall, each of the Post Offices and Depots in the town, not less than seven days before the day appointed for said meeting, and by leaving printed copies of the Warrant at the dwellings of the legal voters before the day of meeting.

Hereof fail not, and make due return of this Warrant with

your doings thereon, to the Town Clerk, at the time and place of said meeting.

Given under our hands this seventeenth day of February, in the year one thousand eight hundred and ninety-one.

LEVI S. GOULD,	} Selectmen of Melrose.
J. P. DEERING,	
C. W. HIGGINS,	

Warrant served by

A. B. PIERCE, Constable.

*Annual Meeting, March 2, 1891, 7 A. M.*

Article 1. Chose Levi S. Gould, Moderator.

Art. 2. Ballot officers appointed. By the Selectmen, Curtis S. Gordon, George Woodward. By the Moderator, Gilbert N. Harris, Edwin C. Gould.

Previous to the opening of the polls it was voted, that the transaction of town business other than voting for town officers be postponed to Saturday evening, March 7, at 7.30. On a motion to reconsider,—not a vote.

Polls opened.

*Voted*, To extend the time for voting and that the polls be closed at 5.35, p. m.

Polls closed.

Result of the balloting as declared.

*Selectmen.*

	VOTES.
John P. Deering . . . . .	784
Levi S. Gould . . . . .	772
Charles W. Higgins . . . . .	843
Other persons,—scattering . . . . .	17

*Town Clerk.*

John Larrabee . . . . .	856
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*Treasurer.*

George Newhall <sup>1</sup> . . . . .	862
Other persons . . . . .	2

*Collector of Taxes.*

Addison Lane . . . . .	835
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*Assessors.*

Henry A. Leonard, 3 years, . . . . .	818
John R. Norton, 2 years, . . . . .	823
Dexter Pratt, 1 year, . . . . .	805
Other persons . . . . .	5

*Water Commissioner, for 3 years.*

George J. Bicknell . . . . .	500
George L. Morse . . . . .	432
Scattering . . . . .	1

*Water Loan Sinking Fund Commissioner for 3 years*

Royal P. Barry . . . . .	797
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*School Committee, for 3 years.*

John C. Maker . . . . .	792
Arethusa K. Miller . . . . .	782
Other persons . . . . .	4

*Trustees of Public Library.*

Charles C. Barry . . . . .	770
Mary L. Charles . . . . .	766
Ruby F. Farwell . . . . .	768
Elbridge H. Goss . . . . .	766
Charles A. Patch . . . . .	763

*Auditor.*

Edwin C. Gould	.	.	.	.	.	.	408
Gilbert N. Harris	.	.	.	.	.	.	378

*Overseers of the Poor.*

Martha D. Bale, 1 year,	.	.	.	.	.	786
Henry G. Fields, 3 years,	.	.	.	.	.	795
John Singer, Jr., 2 years,	.	.	.	.	.	789
Scattering	.	.	.	.	.	1

*Board of Health.*

George W. Burke, 1 year	.	.	.	.	.	428
Osborne E. Drown, 1 year,	.	.	.	.	.	147
Ernest S. Jack, 3 years,	.	.	.	.	.	523
Fred H. Morse, 3 years,	.	.	.	.	.	131
John B. Souther, 2 years,	.	.	.	.	.	158
Frank L. Washburn, 2 years,	.	.	.	.	.	418
John B. Souther, 1 year,	.	.	.	.	.	1

*Park Commissioner for 3 years*

Nathaniel P. Jones	.	.	.	.	.	752
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*Constables.*

Osborne E. Drown	.	.	.	.	.	783
C. F. W. Fogg	.	.	.	.	.	784
Frank M. McLaughlin	.	.	.	.	.	714
Ansel B. Pierce	.	.	.	.	.	796
Other persons	.	.	.	.	.	6

*License Question.*

"Shall licenses be granted for the sale of intoxicating liquors in this town?"

Yes,	.	.	.	.	.	134 votes.
No,	.	.	.	.	.	613 "

The persons receiving the highest number of votes for the several offices were declared elected by the moderator. The ballot box registered 965 the number of ballots cast was 966 and the check list corresponded therewith.

Ballot box register as taken hourly, 8 a. m., 207; 9 a. m., 375; 10 a. m., 447; 11 a. m., 530; 12 m., 585; 1 p. m., 643; 2 p. m., 705; 3 p. m., 779; 4 p. m., 856; 5 p. m. 951; 5.35 p. m., 965.

Voted to adjourn, to time previously stated.

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*Adjourned Meeting, March 7, 1891, 7.30 p. m.*

Met according to adjournment.

Art. 39.

*Voted*, That the reports of the town officers for the financial year ending December 31, 1890, as printed, be accepted.

Report of committee appointed to consider the amounts necessary to be raised and appropriated for the current year, presented and accepted.

Report of committee on removal of obstructions in Ell Pond brook, presented and accepted.

Art. 3. Officers elected by unanimous vote.

Measurers of Wood and Bark, Weighers of Hay and Coal, S. E. Benson, C. B. Goss, F. H. Goss; Surveyor of Lumber, Henry A. Leonard; Pound Keeper, W. Truman Howard; Committee on Cemeteries, George Newhall, Daniel Russell, John Larrabee; Fence Viewers, Dexter Pratt, Walter C. Stevens; Field Drivers, Otis Howard, Frank Gibbons, W. Truman Howard; Sealer of Weights and Measures, Thomas T. Bailey.

Art. 4. Treasurer authorized.

*Voted*, Unanimously, that the Treasurer be authorized, with the approval of the Selectmen, to hire money, to renew, replace, or pay any existing loan or loans; also, to hire money in anticipation of taxes for the current year to meet expenses, and issue notes of the town therefor.

Arts. 5 and 6. Schools.

*Voted*, To raise for the support of the public schools, and for contingent expenses connected therewith, the sum of thirty-four thousand dollars, the unexpended balance from the schools appropriation to be added.

Arts. 7, 9 and 22. Highways, etc.

*Voted*, To raise for highways, crossings, gutters, drainage, bridges, culverts, etc., the sum of fifteen thousand dollars, the balances unexpended from the following appropriations to be added, viz:

Highways . . . . .	\$ 30 08
Crossings and Gutters . . . . .	42 53
Cedar Park Drain . . . . .	8 00
Gooch street . . . . .	49
Lebanon street . . . . .	26
Drainage . . . . .	114 99
Botolph street . . . . .	119 17
Walton Park . . . . .	308 00
Park street . . . . .	199 98
Melrose street . . . . .	70
Stone crossings . . . . .	460 80
<hr/>	
Total of balances . . . . .	\$1285 00



The committee appointed November 11, 1890, to prepare or procure a suitable testimonial to be presented Levi S. Gould for his services as moderator, reported and presented him in behalf of the town with a gold medal and a silver pitcher, both of which were suitably inscribed, to the presentation of which Mr. Gould responded with grateful thanks.

Art. 8. Sidewalks.

*Voted*, To raise for sidewalks the sum of two thousand, five hundred dollars, the unexpended balance from last year to be added, one-half the expense of laying concrete walks opposite estates to be assessed as in previous years, the said appropriation, balance and receipts for the year to be expended in manner as follows: For repairs on existing walks, \$500; for making continuous walks where the public good most requires, \$1500, the remainder to be expended under the direction of the Selectmen.

Art. 10. Poor.

*Voted*, To raise \$6000, unexpended balance from last year added.

Art. 11. Fire Department.

*Voted*, To raise \$4250, of which \$250 shall be expended for new hose.

Arts. 12 and 13. Street Lights.

*Voted*, To raise for lighting streets and purchase of additional lamps, \$5500.

Art. 14. Police and watchmen.

*Voted*, To raise \$4900, unexpended balance added, one man to be added to permanent force.

Art. 15. Contingent expenses.

*Voted,* To raise \$2000, unexpended balance added.

Art. 16. Interest.

*Voted,* To raise \$5500, unexpended balance added.

Art. 17. Reduction of Debt.

*Voted,* To raise \$5000.

Art. 18. Public Library.

*Voted,* To raise \$1000, the dog tax when received to be added and unexpended balance.

Art. 19. Water.

*Voted,* To indefinitely postpone.

Art. 20. Soldiers' and Sailors' relief.

*Voted,* To raise \$500, unexpended balance added.

Art. 21. Salaries of town officers.

*Voted,* To raise \$5000, to be paid as follows:

Three Selectmen, each \$200, . . . . .	\$ 600 00
Town Clerk . . . . .	300 00
Treasurer . . . . .	500 00
Collector of Taxes $\frac{3}{4}$ of 1 % on real estate and personal property taxes and 5 % on poll taxes, estimated at . . . . .	700 00
Assessors, board of three, . . . . .	750 00
Overseers of the Poor, board of three . . . . .	300 00
<i>Amount carried forward,</i> . . . . .	<hr/> \$3,150 00

<i>Amount brought forward,</i>	\$3,150 00
Board of Health, \$50.00 each	150 00
Auditor	300 00
Forest Fire Wards, \$15.00 each	75 00
Inspector of Buildings	100 00
Registrars of Voters, \$50.00 each	200 00
Clerk of Board, extra,	25 00
<hr/>	
Total	\$4000 00

The salaries of the Water Commissioners, \$50 each, and of the Cemetery Committee, \$25 each, to be paid from their respective departments.

*Voted,* That the salary of the Superintendent of Streets be fixed at \$1000, to be paid from the highway appropriation.

Art. 23. *Voted,* To raise the following sums which have been appropriated for the purposes named during the past year and their payment authorized, viz:

Berwick Street drain	\$456 50
Otis Street drain	750 00
Melrose Street sidewalk	500 00
Grove Street sidewalk	150 00
Stone Crusher	4850 00
Wyoming Avenue sidewalk	500 00
Vinton and High Street ledges	85 00
Walton Park	270 00
Drainage	835 00
Botolph Street	285 00
Hose-house land	735 37
<hr/>	

*Amount carried forward,* \$9,416 87

<i>Amount brought forward,</i>	\$9,416 87
Street Signs	150 00
Stone Crossings	500 00
Numbering of buildings	25 00
Cedar Park ledge	100 00
Park Street building of, etc.	400 00
Highland street	400 00
Baxter street	100 00
Fire Alarm	650 00
<hr/>	
Total	\$11,741 87

### Health Department.

*Voted,* To raise \$150 to be expended under the direction of the Board of Health, unexpended balance from last year added.

### Town Hall.

*Voted,* That the unexpended balance to the credit of the Town Hall account remain, to be expended for repairs upon the building and for running expenses.

### Art. 35. Ell Pond brook.

*Voted,* That the Selectmen be directed to cause and compel the removal of all obstructions and erections placed by any parties within the lines of Ell pond brook and drain as laid out by the County Commissioners and hereafter prevent the placing of any obstructions in said drain, to widen where necessary to allow the free flow of the water, the culverts under the roadways; to clear out the said brook or drain and protect its walls by stones where necessary; to request and secure by all proper means the removal of obstructions in said brook and drain within the city of Malden, also to

secure by all proper means the enlargement, if deemed necessary by them, of the culvert under the Boston & Maine Railroad and of the brook and drain under any building or erection within the lines of the lay out by the County Commissioners, and to do all things proper, legal and requisite, to allow the said brook to flow freely and carry off all the water coming therein, instituting if necessary any proper legal proceedings to secure and maintain the said brook and drain free and unobstructed as laid out by the County Commissioners, and that the Treasurer be authorized to borrow the sum of three thousand dollars for the purposes mentioned, which loan shall be paid with the bank and corporation taxes when received, and the Selectmen are further authorized to expend such additional amount of said taxes when received, in excess of the \$3,000, as may be deemed necessary.

On a motion to reconsider,—not a vote.

*Voted,* To adjourn to Wednesday, March 11, at 7.30 p. m.

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*Adjourned Meeting, March 11, 1891, 7.30 P. M.*

Article 23. *Voted,* To raise for insurance of town property, \$500. For improvements on Melrose Common, \$100. For the payment of Military Aid, \$300.

Art. 39. Laborers.

Report of a majority of committee appointed Feb. 16 to consider articles 4 and 5 of the warrant relating to the employment and pay of laborers, submitted and accepted.

Report of a minority of said committee also submitted and accepted.

*Voted*, Unanimously, that in the matter of employing laborers, the several departments of the town shall give the preference to those persons who are citizens and tax-payers.

*Voted*, That the pay of laborers in the various departments of the town shall be two dollars per day for a fair day's work, and that those persons, who in the opinion of the heads of departments are unable to perform a fair day's work shall be given employment if they desire it, at such wages as shall be just for the services rendered.

Report of Selectmen on guide boards, accepted.

*Voted*, Unanimously, that in addition to the duties prescribed by Chap. 221, Acts of 1889, it shall be the duty of the Auditor to compile and prepare for publication the reports of the several town officers.

*Voted*, Unanimously, that the Overseers of the Poor be directed, in addition to keeping their accounts as provided by Statute recently accepted to so keep their accounts as to show the exact cost to the town of each person assisted.

*Voted*, Unanimously, that the Selectmen be directed to publish in the annual report, a detailed statement of the amount expended for highways, showing as near as may be the amount expended for each street, for crossings and gutters, for drainage, bridges and culverts, and for repairs, also the expense of maintaining the stone crusher, and amount of material produced therefrom.

The committee on almshouse appointed Feb. 16, requested further time. Granted.

Art. 24. Taxes, how paid.

*Voted*, That all single poll taxes be made payable on or

before August 1, 1891. That all other taxes be made payable on or before October 1, 1891, and that interest be added upon all taxes remaining unpaid after that date, at the rate of six per cent. per annum; that all property on which the taxes remain unpaid on June 1, 1892, be sold by the collector in accordance with the provisions of law, and that he be instructed to strictly carry out the provisions of the above vote.

Art. 25. Water Bonds.

*Voted*, That the Town Treasurer be authorized to sell three water fund bonds of the issue of 1887, for the purpose of paying the cost of construction for the ensuing year.

Art. 26. Memorial Day.

*Voted*, To raise \$200 for keeping in repair and decorating graves of soldiers on Memorial Day.

Art. 27. Soldiers' Lot.

*Voted*, To raise \$100 for the improvement of the soldiers' lot in Wyoming cemetery.

Art. 28. Edgestones.

Referred to Selectmen.

Art. 29. Washington street,

Referred to Selectmen.

Art. 30. Grove street.

Referred to Selectmen.

Art. 31. Street Lights.



*Voted*, That the matter be referred to the Selectmen with authority to place four electric lights on Swain's Pond avenue, provided the same can be furnished for eighteen dollars each per annum.

*Voted*, That \$720 be raised for the purpose of furnishing electric lights, where needed, in the southeasterly section of the town.

Art. 32. Band Stand.

*Voted*, To raise \$100 for the purpose of purchasing a portable band stand.

Art. 33. Covers for merchandise.

Referred to engineers of Fire Department.

Art. 34. By-Laws.

Amendments in relation to buildings submitted.

*Voted*, To indefinitely postpone action.

Art. 36. Second street.

Referred to Selectmen.

Art. 37. Grove street culvert.

Referred to Selectmen.

Art. 38. Streets.

Section 1. Walton Park, accepted.

Sec. 2. Ashland street, passed over.

Sec. 3. Highland street, passed over.

Sec. 4. Chipman avenue, passed over.

Sec. 5. Summit avenue, passed over.

Sec. 6. Grove street extension, accepted.

Art. 39. Taxes 1888-1889.

*Voted*, That George C. Stantial and Dexter Pratt be a committee to settle with the Collector of Taxes for the year 1888 and 1889.

*Voted*, To adjourn *sine die*.

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## WARRANT FOR MEETING

JUNE 8, 1891.

*To either of the Constables of the Town of Melrose, in the  
County of Middlesex:* *GREETING:*

In the name of the Commonwealth of Massachusetts, you are hereby required to notify the inhabitants of the town of Melrose, qualified to vote in elections and town affairs, to meet at the Town Hall, on Monday, the eighth day of June, A. D., 1891, at 7.30 o'clock, p. m., then and there to act on the following Articles, viz' :

Article 1. To choose a Moderator.

Art. 2. To see if the town will purchase a Steam Road Roller, and authorize the Treasurer to borrow money for the same.

Art. 3. To see if the town will vote to petition the Legislature for authority to issue additional Water Fund Bonds, and to pass any other vote deemed necessary in the premises.

Art. 4. To see if the town will vote to enlarge the Grove street schoolhouse to an eight-room building, and authorize the Treasurer to borrow money for the same.

Art. 5. To see what action the town will take in relation to establishing an electric light plant, and the acceptance of any provisions of law in connection with the same.

Art. 6. To see what action the town will take in relation to collecting house offal, garbage, etc., and authorize the Treasurer to borrow money for the same.

Art. 7. To see if the town will amend the "By-Laws."

Art. 8. To see if the town will authorize the Treasurer to execute and deliver deeds of lots in Wyoming Cemetery, to such soldiers or their families, as have been permitted to occupy lots in said cemetery, under a vote of the town passed June 9. 1863.

Art. 9. To see if the town will authorize the Treasurer, when requested by the heirs or legal representatives of those persons who were permitted to take and occupy lots in the Old Burial Ground, to execute and deliver deeds of lots in Wyoming Cemetery, for a nominal sum, provided arrangements are made for the transfer and removal of all bodies, tablets, etc., now in said lots.

Art. 10. To see if the town will discontinue a portion of Highland street as laid out and accepted, and accept a relocation and extension of the lines of said street, by the Selectmen.

Art. 11. To hear and act upon the reports of Committees, and for the transaction of any other business which may legally come before this meeting.

And you are directed to serve this Warrant by posting attested copies thereof at the Town Hall, each of the Post-offices and Depots in the town, not less than seven days before the day appointed for said meeting, and by leaving printed copies of the Warrant at the dwellings of the legal voters before the day of meeting.

Hereof fail not, and make due return of this Warrant,

with your doings thereon, to the Town Clerk, at the time and place of said meeting.

Given under our hands this twenty-sixth day of May, in the year one thousand eight hundred and ninety-one.

LEVI S. GOULD, } Selectmen  
J. P. DEERING, } of  
C. W. HIGGINS, } Melrose.

Warrant served by

ANSEL B. PIERCE, Constable.

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*Meeting, June 8, 1891, 7.30 P. M.*

Article 1. Chose Levi S. Gould, Moderator, by unanimous vote.

Art. 2. Passed over.

Art. 3. Water Bonds.

*Voted*, That the Selectmen be and are hereby authorized to petition the Legislature for authority to issue additional Water Fund Bonds to the amount of twenty-five thousand dollars, bearing interest at not exceeding four per cent. per annum, the proceeds from the sale of which shall be used for the extension and construction of the water works.

Art. 4. Grove street school house.

Motion submitted by the Chairman of the School Committee, substitute motion offered, previous question ordered after debate. Vote, aff. 116, neg. 9. Substitute motion rejected. Vote, aff. 95, neg. 96. Check list ordered. Vote, aff. 55, neg. 208. Then voted to adjourn to Monday evening, June 22, at 7.30 o'clock. Vote, aff. 132, neg. 82.

*Adjourned Meeting, June 22, 1891, 7.30 P. M.*

Met according to adjournment.

Art. 4. Grove street school house.

*Voted*, That the Grove street school house be enlarged by the addition of four rooms; that the Town Treasurer be authorized to borrow the sum of \$11,000 for building and furnishing the same, and for providing heating and ventilating apparatus for the whole building; and that the School Committee, with three others, to be appointed by the Moderator, be a committee to carry out the provisions of the vote.

The above vote was taken by check-list, "yes" and "no" ballots being used. Result of balloting, aff. 191, neg. 51.

Committee appointed by the Moderator to act with the School Committee: Frank L. Washburn, Joel Snow, Sidney H. Buttrick.

Art. 5. Electric lighting.

*Voted*, That it is hereby declared expedient for the town to exercise the authority conferred in an act to enable cities and towns to manufacture and distribute gas and electricity, passed by the Legislature of 1891. Vote taken by check-list, "yes" and "no" ballots used. Polls closed by unanimous vote. Result of balloting, aff. 11, neg. 1.

*Voted*, That the Moderator appoint a member to the vacancy on the Committee on electric lighting, caused by the resignation of William A. Smith. Walter H. Roberts, Esq., was appointed.

*Voted,* That the committee on electric lighting be directed to inquire and report at a subsequent meeting whether in their judgment it is expedient and desirable for the town to erect and maintain a plant for the generation and distribution of electricity for public and private lighting, also what will be the probable cost of a complete electric light plant suitable for the necessities of the town.

Art. 2. Steam Road Roller.

*Voted,* That the Town Treasurer be directed to borrow or to take from moneys now in the treasury, not otherwise appropriated the sum of six hundred and forty-eight dollars for the purchase of a steam road roller.

Art. 6. Health, garbage, etc.

*Voted,* That the Treasurer be authorized to borrow the sum of \$1500, to be expended under the direction of the Board of Health for the purpose of collecting swill, garbage, etc.

Art. 7. By Laws.

*Voted,* To amend the By Laws, Art. 2, Section 10, by striking out the words "three auditors" and inserting the words "one auditor," so that said Section as amended shall read:

Section 10. There shall be chosen at the annual meeting one auditor, who shall perform the duties prescribed by Statute.

Art. 8. Soldiers' lots in Wyoming Cemetery.

*Voted,* That the Town Treasurer be and is hereby author-

ized to execute, and deliver to those soldiers or their families who were permitted to occupy lots in Wyoming Cemetery under a vote of the town passed June 9, 1863, proper deeds conveying a title to the same for a nominal sum. Unanimous vote.

Art. 9. Old Burial Ground, removal of bodies, etc.

*Voted*, "That whenever the heirs or legal representatives of those persons who were permitted to take and occupy lots in the 'Old Burial Ground' on Main street shall in writing so request, and proper arrangements have been made under the supervision or direction of the Cemetery Committee for the removal of the remains of all persons interred in any of said lots, the Town Treasurer is hereby authorized to execute and deliver, for a nominal sum, deeds of such lots in Wyoming Cemetery as may be selected or set apart under the direction and approval of the Cemetery Committee for the re-interment of such remains."

For the purpose of carrying out the provisions of the above vote and the payment of all expenses connected therewith, the Cemetery Committee are authorized to expend from the cemetery funds an amount not exceeding five hundred dollars, an account of which shall be kept and reported to the town for further action.

Art. 10. Highland street.

*Voted*, To discontinue that part of Highland street which was accepted Nov. 18, 1890, and to accept the street as re-located, extended and laid out by the Selectmen.

Art. 11. Sewall Woods.

*Voted*, That whereas it is understood that the Sewall



heirs desire under certain conditions to present to the town of Melrose, ten acres of land for use as a public park, embracing the central and highest portions of the Sewall estate, it is hereby resolved, that a committee of nine be appointed, to consist of the Selectmen, the Park Commissioners, and three citizens to be named by the Moderator, who shall confer with the representatives of the Sewall family and ascertain their wishes and intentions in the matter, and report at the next town meeting.

Citizens appointed, John W. Farwell, Royal P. Barry, D. Webster Dow.

*Voted, To adjourn sine die.*

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## WARRANT FOR MEETING

JULY 7, 1891.

*To either of the Constables of the Town of Melrose, in the County of Middlesex:* *GREETING.*

In the name of the Commonwealth of Massachusetts, you are hereby required to notify the inhabitants of the town of Melrose, qualified to vote in elections and town affairs, to meet at the Town Hall, on Tuesday, the seventh day of July, A. D. 1891, at 7.30 o'clock, p. m., then and there to act on the following Articles, viz.:

Article 1. To choose a Moderator to preside in said meeting.

Art. 2. To see what action the town will take upon a report of the Water Commissioners, recommending that the town take in conjunction with the city of Malden and town of Medford, certain lands, water and water rights about Spot pond and provide for settlement of claims and make

appropriation therefor as recommended by the Water Commissioners.

Art. 3. To see if the town will vote to purchase in conjunction with the city of Malden, of the town of Medford, two undivided third parts of certain lots of land located on the shore of Spot pond.\*

Art. 4. To see if the town will authorize the Water Commissioners to enter into an agreement with the city of Malden and town of Medford respecting the use of the parcels of land held in severalty by the three municipalities on the borders of Spot pond.

Art. 5. To see if the town will adopt certain sections of Chapter 104, Public Statutes, relating to the inspection of buildings, and also amend Article 7 of the By-Laws.

Art. 6. To see if the town will authorize the Selectmen to repair the roof and outside trimmings of the Town Hall building, rendered necessary for its preservation, and direct the payment of the same out of any funds not otherwise appropriated, provided that the income from the hall shall not prove sufficient.

Art. 7. To see if the town will authorize the Selectmen to erect a shed in the rear of the town pound, or elsewhere, for the purpose of storing, when not in use, the steam roller, road scraper, snow-ploughs, and other machinery and tools belonging to the highway department and authorize the Treasurer to borrow money, or pay for the same out of any funds not otherwise appropriated.

Art. 8. To see if the town will widen and deepen the culverts and bed of Spot pond brook, and authorize the Treasurer to borrow such amount as may be necessary for the purpose, on petition of Edward L. Whittier, and others.

Art. 9. To hear and act upon the report of the committee appointed at meeting held June 8, 1891, to confer with the heirs of the late Hon. S. E. Sewall in relation to the

presentation by them of certain land to be held and used for a public park.

Art. 10. To hear and act upon the reports of committees and for the transaction of any other business which may legally come before this meeting.

And you are directed to serve this Warrant by posting attested copies thereof at the Town Hall, each of the Post Offices and Depots in the town, not less than seven days before the day appointed for said meeting, and by leaving printed copies of the Warrant at the dwellings of the legal voters before the day of meeting.

Hereof fail not, and make due return of this Warrant, with your doings thereon, to the Town Clerk, at the time and place of said meeting.

Given under our hands this twenty-seventh day of June in the year one thousand eight hundred and ninety-one.

LEVI S. GOULD,	} Selectmen of Melrose.
JOHN P. DEERING,	
CHAS. W. HIGGINS,	

Warrant served by,

ANSEL B. PIERCE, Constable.

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*Meeting July 7, 1891, 7.30 P. M.*

Art. 1. Chose Levi S. Gould, Moderator.

Art. 10. Levi S. Gould, unanimously elected to fill vacancy on the committee on electric lighting, caused by the declination of Walter H. Roberts, Esq.

Art. 9. Sewall Woods.

Report of committee read.

*Voted*, Unanimously, that the report be accepted and recommendations adopted.

*Voted*, That the town of Melrose hereby accepts the proposition of Mrs. Edward C. Cabot of Brookline, Mass., as contained in her letter of July 6, 1891, addressed to the board of Selectmen, presenting to said town certain land for a public park with the conditions therein expressed, that the town build and make the road as indicated on a plan drawn by Walter C. Stevens, and accept it as a town way and that the town provide perpetual care of said public park, and call the gift "Sewall Woods" in honor of the memory of our late respected citizen, Hon. Samuel E. Sewall.

*Voted*, Unanimously, that the thanks of the town be presented to Mrs. Cabot.

Art. 2. Water.

Report of the board of Water Commissioners read and presented by the chairman after which it was voted.

That the town of Melrose, the city of Malden and the town of Medford concurring in the exercise of the power granted to said city and said towns, by Chapter 160 of the Acts of the Commonwealth of Massachusetts, of the year 1870, and by Chapter 388 of the Acts of the year 1887 enabling said city and towns in conjunction to take by purchase or otherwise, lands, water and water rights for the purposes specified in Section 2 of said Chapter 160 and in said Chapter 388, by virtue of said power and in the exercise thereof in concurrence with said city of Malden and town of Medford, doth hereby join said city of Malden and town of Medford in taking and holding for the purposes specified as aforesaid, and in conjunction with said city of Malden and town of Medford by virtue of the power so granted and for the purposes specified in Section 2 of said Chapter 160, and in said Chapter 388, doth hereby take and will hold the fol-

lowing described lands, water and water rights, to wit:—57 descriptions of lots of land, all of which are duly entered upon the Town Records, Book 3, pages 422-462 inclusive, and in the Middlesex Registry of Deeds (So. Dist.) reference being made to plans, also entered for record in said registry.

Exceptions :

Reserving and excepting so much of each of the lots of land above described as is embraced within the limits of any town way or county road.

And the Water Commissioners of the town of Melrose are hereby authorized and directed in conjunction with the Water Commissioners of said city of Malden and town of Medford to file in the Registry of Deeds for the Southern District of the County of Middlesex within sixty days from the taking of said lands, water and water rights, a description of the lands, water and water rights so taken, sufficiently accurate for identifying the same.

Standing of vote upon the above. Total number of persons voting, 197. Aff. 153, neg. 44. More than two thirds of the number of votes being affirmative, it was declared a vote by the Moderator, as stated.

*Voted*, That the Water Commissioners of the town of Melrose in conjunction with the Water Commissioners of the city of Malden and town of Medford be and hereby are given full power to purchase in behalf of said town of Melrose, for said city and towns any, or all of the land in the vicinity of Spot pond this day taken by said town of Melrose in conjunction with said city of Malden and said town of Medford at such price as may seem best to said Water Commissioners or to settle the damages for the taking of any or all of the land thus taken on such terms as may seem best to

said Commissioners, the expenses of such purchases or settlements to be borne equally by said town of Melrose and by said city of Malden and town of Medford, and the sum of twenty thousand dollars is hereby appropriated for said above purposes, said sum to be borrowed and funded in bonds to be issued for that purpose, and the Treasurer of the town is authorized to borrow in behalf of the town said sum of money pending the issuance of bonds as aforesaid.

Vote, affirmative, 123; negative, 23.

Article 3.

*Voted*, Unanimously, that the Water Commissioners of the town of Melrose in conjunction with the Water Commissioners of the city of Malden are hereby authorized on behalf of said town of Melrose to purchase in conjunction with the said city of Malden, two undivided third parts of land, water and water rights on the shore of Spot pond hereinafter described, owned by the town of Medford, so that said land, water and water rights shall be held in common by said city of Malden and said towns of Melrose and Medford for the purposes specified in Chapter 160 of the Acts of the Commonwealth of Massachusetts of the year 1870 and in Chapter 388 of the year 1887; and in the deed of purchase it may be provided that the town of Medford may use and occupy a strip of said land at some point between the present Gate House lot of said town of Medford and Forest street in said Medford not exceeding 300 feet in width, for high service station and appurtenances.

For a description of land see Town Records Book, 3 pages, 464, 466 inclusive.

Art. 4. Use of land.

*Voted*, That the Water Commissioners of the town of



Melrose are hereby authorized to enter into such agreement with the city of Malden and town of Medford respecting the lands on the shores of Spot pond occupied by each of the three municipalities in severalty for gate house and pumping station as they shall deem desirable.

Art. 8. Spot pond brook.

*Voted*, That the Town Treasurer be authorized to borrow the sum of \$3,100 for the purpose of widening the culverts and dredging Spot pond brook. Vote unanimous.

Art. 6. Town Hall.

*Voted*, That the Town Treasurer be directed to borrow or take from moneys now in hand and not otherwise appropriated, a sum not to exceed \$1000 to defray the expense of repairs upon the Town Hall building, provided the income from said building for the year ending December 31, 1891, is not sufficient.

Art. 5. Inspection of buildings.

*Voted*, That the town accept and adopt the provisions of Chapter 104 of the Public Statutes, which relate to the inspection of buildings so far as the same are applicable to towns.

*Voted*, To amend Article 7, town By-Laws by adding the following section to be known as Section 14 :

Every building or structure hereafter built in the town shall have foundations resting upon the solid ground or upon concrete piles or other durable structure. The foundation walls shall be built of stone extending through sufficiently to bind the walls inside and outside. All under-



pinnings above grade, whether of brick or stone, shall be laid in one-half cement mortar.

Art. 7. Tool shed.

*Voted,* That the Town Treasurer be directed to borrow, or take from moneys not otherwise appropriated, the sum of \$300 to defray the expense of building a shed, for the protection of town property, in rear of Russell hose house or in such other location as the Selectmen may deem advisable, and that the Selectmen be instructed to remove the rubbish, debris, carts, stones, etc., lying around the rear of the Town Hall lot.

*Voted,* To adjourn *sine die*.

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## WARRANT FOR MEETING

NOV. 3, 1891.

*To either of the Constables of the Town of Melrose, in the County of Middlesex:* *GREETING.*

In the name of the Commonwealth of Massachusetts, you are hereby required to notify the inhabitants of the town of Melrose, qualified to vote in elections and town affairs to meet at the Town Hall, on Tuesday, the third day of November, A. D. 1891, at 7 o'clock, a. m., then and there to act on the following Articles, viz.:

Article 1. To bring in their votes for State and County Officers and for and against certain articles of amendment to the Constitution in form and manner as prescribed by law.

All ballots are to be furnished by the Commonwealth and will be distributed at the polls by officers duly appointed.

Polls to be kept open until 4.30 p. m.

Art. 2. To choose a Moderator to preside for the transaction of town business.

Art. 3. To see if the town will accept the jury list as revised.

Art. 4. To see what action the town will take in regard to building a school house on the west side of the B. & M. railroad at the Highlands, on petition of George J. Bicknell and others.

Art. 5. To see if the town will grade Hillside avenue and concrete the gutters upon the same, and authorize the treasurer to borrow such money as may be deemed necessary, on petition of Charles C. Barry and others.

Art. 6. To see if the town will accept a street running from Melrose street, northerly to Franklin street, as laid out and extended by the Selectmen, a part of said street having been known heretofore as Auburn street, and authorize the Treasurer to borrow money for the building of the same.

Art. 7. To see if the town will build a highway, as ordered by the County Commissioners, which extends from Perkins street westerly to the boundary line between Stoneham and Melrose and authorize the Treasurer to borrow money for the same.

Art. 8. To see if the town will authorize the Treasurer to borrow one thousand dollars for the support of the poor, by request of the Overseers.

Art. 9. To see if the town will authorize the Treasurer to pay all necessary expenses which may be incurred from January 1, to April 1, 1892, in anticipation of the annual appropriations of the year, and also authorize the payment of certain bills necessarily contracted in excess of the appropriation for contingent expenses for the current year, and for the insurance of town property.

Art. 10. To see if the town will appoint a committee to

take in consideration the amounts necessary to be raised and appropriated for the expenses of the year 1892, and report at the annual meeting in March next.

Art. 11. To see if the town will accept of the provisions of Chapter 370, of the Acts of the year 1891, entitled, "an act to enable cities and towns to manufacture and distribute gas and electricity," and pass any votes in connection therewith which may be deemed expedient.

Art. 12. To hear and act upon the reports of committees and for the transaction of any other business which may legally come before the meeting.

And you are directed to serve this Warrant by posting attested copies thereof at the Town Hall, each of the Post Offices and Depots in the town, not less than seven days before the day appointed for said meeting, and by leaving printed copies of the Warrant at the dwellings of the legal voters before the day of meeting.

Hereof fail not, and make due return of this Warrant, with your doings thereon, to the Town Clerk, at the time and place of said meeting.

Given under our hands this twenty-fourth day of October in the year one thousand eight hundred and ninety-one.

LEVI S. GOULD,	{	Selectmen of Melrose.
J. P. DEERING,		
C. W. HIGGINS,		

Warrant served by

ANSEL B. PIERCE, Constable.

*Meeting Nov. 3, 1891, 7 A. M.*

Polls opened under Article 1.

Levi S. Gould, Chairman, elected to preside by the Selectmen.

Officers appointed by the Selectmen and duly sworn.

*Inspectors.*

Edwin C. Gould,

Edward E. Babb.

*Deputy Inspectors.*

George R. Jones,

Curtis S. Gordon.

*Tellers.*

Charles W. Cochrane,

C. W. Harlow, M. D.

Albon W. Parker,

George W. Stinson,

Thomas T. Bailey,

Frank H. Brown,

George C. Stantial,

Rufus D. Kilgore,

Gilbert N. Harris,

Joshua T. Nowell,

Stephen A. Lovejoy,

Sidney D. Farrar.

*Substitute Tellers.*

William A. Waterhouse,

Joel F. Brown,

David G. Murphy,

George H. Hill.

Art. 2. Chose Levi S. Gould as Moderator.

*Voted*, That the transaction of town business be postponed until Thursday evening, November 19, at 7.30 o'clock, and that when this meeting adjourns it shall be to that time.

At 4.00 p. m. Voted to keep the polls open until sunset  
4.35 p. m.

Polls closed at 4.35 p. m.

The ballots cast were counted and recounted as required by law, by the tellers with the assistance of the other officers, and the result was declared at 1.10 a. m. Wednesday morning in open town meeting, as follows:

Total number of ballots . . . . .	1646
Names checked on lists . . . . .	1647
Ballot box register . . . . .	1646

*For Governor.*

Charles H. Allen of Lowell, Republican . . . . .	943
Charles E. Kimball of Lynn, Prohibition . . . . .	36
Harry W. Robinson of Boston, Socialist Labor . . . . .	5
William E. Russell of Cambridge, Democratic . . . . .	628
Henry Winn of Malden, People's Party . . . . .	8
Blank votes . . . . .	26

*For Lieutenant-Governor.*

John W. Corcoran of Clinton, Democratic . . . . .	549
William H. Haile of Springfield, Republican . . . . .	1000
George R. Peare of Lynn, Socialist Labor . . . . .	1
William J. Shields of Boston, People's Party . . . . .	13
Augustus R. Smith of Lee, Prohibition . . . . .	34
Blank votes . . . . .	49

*For Secretary.*

Joseph D. Cadle of Westfield, People's Party . . . . .	16
Elbridge Cushman of Lakeville, Democratic . . . . .	501
William M. Olin of Boston, Republican . . . . .	985
Alfred W. Richardson of Springfield, Prohibition . . . . .	52
Edward W. Thienert of Holyoke, Socialist Labor . . . . .	2
Blank votes . . . . .	90

*For Treasurer and Receiver General.*

Charles Friede of Boston, Socialist Labor . . .	8
James S. Grinnell of Greenfield, Democratic . . .	501
George A. Marden of Lowell, Republican . . .	978
Samuel B. Shapleigh of Boston, Prohibition . . .	51
Thomas A. Watson of Braintree, People's Party . . .	9
Blank votes . . . . .	99

*For Auditor.*

William O. Armstrong of Boston, Prohibition . . .	51
John W. Kimball of Fitchburg, Republican . . .	953
Squire E. Putney of Somerville, Socialist Labor . . .	1
William D. T. Trefry of Marblehead, Democratic . . .	527
William O. Wakefield of Lynn, People's Party . . .	9
Blank votes . . . . .	105

*For Attorney-General.*

Walcott Hamlin of Amherst, Prohibition . . .	52
Herbert McIntosh of Worcester, People's Party . . .	11
Albert E. Pillsbury of Boston, Republican. . . .	969
George M. Stearns of Chicopee, Democratic . . .	507
James Waldock of Boston, Socialist Labor . . .	2
Blank votes . . . . .	105

*For Councillor, Sixth District.*

William B. de las Casas of Malden, Democratic . . .	518
Charles F. Loring of Melrose, Republican . . .	992
George Pillsbury of Tewksbury, Prohibition . . .	50
Blank votes . . . . .	86

*For Clerk of the Courts, Middlesex.*

Theodore C. Hurd of Winchester, Democratic, Pro- hibition, Republican . . . . .	1019
Blank votes . . . . .	626
Jesse A. Dill . . . . .	1

*For County Commissioners, Middlesex.*

Stephen B. Puffer of Lowell, Democratic . . .	513
William B. Savage of Somerville, Prohibition . . .	68
Samuel O. Upham of Waltham, Republican . . .	958
Blank votes . . . . .	107

*For County Treasurer, Middlesex.*

Joseph G. Ball of Cambridge, Prohibition . . .	56
Joseph O. Hayden of Somerville, Republican . . .	980
Alfred D. Hoitt of Arlington, Democratic . . .	499
Jesse A. Dill . . . . .	1
Blank votes . . . . .	110

*For Register of Deeds, Southern Middlesex District.*

Charles B. Stevens of Cambridge, Democratic, Pro- hibition, Republican . . . . .	1177
Jesse A. Dill . . . . .	1
Blank votes . . . . .	468

*For Senator, Sixth Middlesex District.*

Waldo E. Cowdrey of Wakefield, Democratic . . .	490
Ammi Cutter of Stoneham, Prohibition . . .	77
B. Marvin Fernald of Melrose, Republican . . .	973
Jesse A. Dill . . . . .	1
Blank votes . . . . .	105

*For Representative in General Court, Eleventh Middlesex District.*

William E. Barrett of Melrose, Republican . . .	916
Harry Dutton of Melrose, Democratic . . .	672
Wingate P. Sargent . . . . .	1
Blank votes . . . . .	57



*For Amendments to the Constitution.*

Shall the proposed amendment to the Constitution relative to the qualification of voters for Governor, Lieutenant-Governor, Senators and Representatives, be approved and ratified?

Yes . . . . .	747
No . . . . .	228
Blank votes . . . . .	671

Shall the proposed amendment to the Constitution making a majority of members a quorum in each branch of the general court, be approved and ratified?

Yes . . . . .	800
No . . . . .	111
Blank votes . . . . .	735

Record of ballots cast: a. m.—7.20, 100; 7.40, 200; 8, 300; 8.20, 400; 8.35, 500; 8.50, 600; 9.15, 700; 9.50, 800; 10.40, 900; 11, 9.20; 11.30, 9.87; 11.45, 1000; 12m, 1037; p. m., 1.08, 1200; 1.25, 1250; 2.15, 1350; 2.45, 1400; 4.35, 1646.

Certified transcripts of the above vote were made out and signed by the officers, the ballots cast, unused, and cancelled together with the check lists, were enclosed in envelopes as required by law, after which it was voted unanimously to adjourn to Thursday, November 19, at 7.30 p. m. Time of adjournment 2 a. m. Wednesday, November 4, 1891.

*Adjourned Meeting, November 19, 1891, 7.30 P. M.*

Article 3. Jury list.

List amended and accepted as revised.

Art. 4. School building at Highlands.

*Voted,* That a committee of five be appointed by the Moderator to look up a site, or sites, for a new school house at the Highlands and to ascertain the cost of the same, to obtain also such information as they can as to the size of the building needed and the probable cost thereof, without involving the town in any expense, and report at the next town meeting.

Committee appointed, J. O. Norris, chairman school committee; W. D. Stewart, C. W. Cook, D. W. Dow, John G. Taylor.

Art. 5. Hillside avenue repairs.

Referred to the Selectmen.

Art. 12. Authority to Water Commissioners.

*Voted,* That the Board of Water Commissioners be authorized to apply in conjunction with the city of Malden and the town of Medford, to the General Court for the grant and relinquishment to the said city and towns of all the right and control which the Commonwealth has in the great pond known as Spot pond, for the better guarding and protecting of its waters from pollution and intrusion, and to take such action for securing of said grant as they may deem effective.

Report of committe appointed February 16, 1891, to revise the water-rates accepted.

*Voted,* To amend the report by changing the amount to be charged for additional faucets from \$2.00 to \$1.00 each and that a discount of five per cent. be allowed on all payments for water rates paid previous to, or by March 1st in each year.

For water rates as accepted and adopted see report of Water Commissioners, also entered in Town Records Book, 3 pages, 480-483 inclusive.

*Voted,* That the Finance Committee be instructed to include in their appropriations the following items as submitted by the Board of Water Commissioners, viz.: 160 hydrants, at \$20 per hydrant; ornamental and drinking fountains, \$200; public buildings at regular rates; watering streets, \$200.

Vote, aff. 61, neg. 17.

A report submitted by the Water Commissioners relating to water rates and the income therefrom with recommendations was unanimously accepted.

The following resolve was passed unanimously, expressed by a rising vote :

*Resolved,* By the citizens of Melrose in town meeting assembled, that the heartfelt sympathy of the town goes out to our distinguished fellow-citizen, Hon. Charles F. Loring, and we trust that his sufferings may be speedily alleviated and his accustomed health restored.

Copy of above forwarded and acknowledgment received.

Art. 8. Poor.

*Voted*, That the Treasurer be authorized to borrow one thousand dollars for the support of the poor.

Art. 6. Auburn street.

*Voted*. To indefinitely postpone. Aff. 55, neg. 47.

Art. 7. Highway to Stoneham.

*Voted*, That the Selectmen be instructed to ask for an extension of the time for building of this highway for five years.

Art. 9. Treasurer authorized.

*Voted*, That the Treasurer be and is hereby authorized to pay all necessary expenses which may be incurred from January 1, 1892, to April 1, 1892, in anticipation of the annual appropriations of the year and that he be also authorized to pay certain bills necessarily contracted on account of contingent expenses and insurance of town property, the sums of \$800 and \$600, respectively, with authority to borrow such amounts if necessary, same to be included in the tax levy for 1892.

Art. 10. Finance Committee.

*Voted*, That a committee of nine be appointed by the Moderator under this article.

Committee appointed : John W. Farwell, Royal P. Barry, Charles H. Lang, Maurice G. Cochran, Charles W. Cook, Thomas W. Ripley, George T. Brown, Edward L. Whittier. George W. Farnsworth, declined ; Andrew J. Burnett, substituted.

Art. 11. Electric light plant, etc.

*Voted*, That further consideration of this article be postponed to an adjourned session of this meeting to be held the same evening as the next town meeting shall be held for the transaction of town business.

*Voted*, That when the consideration of the other articles than Article 11 in the Warrant is completed, that this meeting be adjourned until the evening when the next town meeting shall be held for the transaction of town business, said meeting to be called to order thirty minutes before the time designated for the next town meeting held in the evening for the transaction of town business.

*Voted*, That the Selectmen be instructed to insert in the Warrant for the next meeting, called for the transaction of town business, an article covering such action of the town as may be necessary to carry into effect an act entitled "an act to enable cities and towns to manufacture and distribute gas or electricity."

*Voted*, to adjourn.

## APPROPRIATIONS, 1891.

March 7.

Article in Warrant.

5 and 6. Schools, including contingent expenses, . . . . .	\$34,000 00
7, 9 and 22. Highways, Crossings, Gutters and Drainage . . . . .	\$15,000 00
8. Sidewalks . . . . .	2,500 00
10. Poor, Support of . . . . .	6,000 00
11. Fire Department (hose \$250.) . . . . .	4,250 00
12 and 13. Street Lights and Add'l Lamps . . . . .	5,500 00
14. Police . . . . .	4,900 00
15. Contingent Expenses . . . . .	2,000 00
16. Interest . . . . .	5,500 00
17. Reduction of Debt . . . . .	5,000 00
18. Public Library, Dog Tax and . . . . .	1,000 00
20. Soldiers' Relief . . . . .	500 00
21. Salaries . . . . .	4,000 00
23. Deficiencies, 1890 . . . . .	11,741 87
" Health Dep't . . . . .	150 00

March 11.

Article in warrant.

23. Insurance . . . . .	500 00
" Melrose Common . . . . .	100 00
" Military Aid . . . . .	300 00
26. Memorial Day . . . . .	200 00
27. Soldiers' Lots . . . . .	100 00
31. Street Lights (add'l) . . . . .	720 00
32. Band Stand . . . . .	100 00

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Tax Levy . . . . . \$104,061 87

Other appropriations, Treasurer authorized to borrow or pay, not included in tax levy.

June 22.

Enlargement Grove Street school-house	\$11,000 00
Steam Road Roller . . . . .	648 00
Health, removal of garbage, etc. . . . .	1,500 00

July 7.

Water, to pay for land, pending issuance of Bonds . . . . .	20,000 00
Spot Pond Brook . . . . .	3,100 00
Town Hall repairs . . . . .	1,000 00
Tool Shed . . . . .	300 00

November 19.

Poor, support of . . . . .	1,000 00
Contingent Expenses . . . . .	800 00
Insurance . . . . .	600 00

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Total, . . . . .	\$39,948 00
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Deduct sums appropriated for

Water, to be refunded in Bonds	\$20,000 00
Loan on acc't Grove Street school-house . . . . .	11,000 00
	<hr/> \$31,000 00

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Balance to be provided for . . . . .	\$8,948 00
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Attest :

JOHN LARRABEE,  
Town Clerk.



## AWARD OF COMMISSIONERS

APPOINTED TO APPORTION

## Cost and Maintenance of Metropolitan Sewerage System.

## COMMONWEALTH OF MASSACHUSETTS.

SUPREME JUDICIAL COURT.

Suffolk ss.

In Equity, No. 3209.

HOSEA KINGMAN AND OTHERS, METROPOLITAN SEWERAGE, COM-  
MISSIONERS, PETITIONERS.

*Award of Commissioners.*

The undersigned, Ebenezer R. Hoar, William C. Endicott and John E. Sanford, appointed by the court upon the above entitled petition as the Commissioners under Section 13 of Chapter 439 of the Acts of the year 1889, to determine the proportion in which the several cities and towns named in said Act shall annually pay money into the treasury of the Commonwealth for the term of five years next following the year of the first issue of the scrip or certificates therein named, for the purposes therein set forth, and to perform all other duties and to exercise all powers imposed or conferred by law upon the three Commissioners whose appointment is provided for by said Section 13 of said Act, — as appears by the copy of the order of said court hereto annexed, — have attended to and completed the duty thus assigned to them, and do now report to the court:

That we, the said Commissioners, appointed a time and place for hearing all the parties interested in the matters submitted to our determination, and gave due notice thereof to the Attorney-General (who replied that he did not think it necessary for the Commonwealth to appear), and to the Treasurer of the Commonwealth, and to the Board of Metropolitan Sewerage Commissioners, and to each of the cities and towns named in the act aforesaid; and that all of said cities and towns, by their respective officers, solicitors or counsel, have attended at the time and place appointed for such hearing, or at the adjournments thereof, with such witnesses and evidence as they have seen fit to produce, and have been heard by all of us sitting together as fully as they or any of them have desired. Said public hearings were held, with the assent of all parties, at the State House in the city of Boston, on the twenty-first day of July, the fifteenth, eighteenth, twenty-ninth and thirtieth days of September and the sixth and seventh days of October, 1891.

And now, after hearing the parties, their allegations, evidence and arguments, and after such further investigations as we have found it necessary or desirable to make, and after carefully weighing all the facts and considerations which have been presented or have occurred to us, or which were suggested in the recent opinion of the full court in this case, as elements which ought to be taken into consideration in making a just and equitable apportionment of the moneys to be paid by the several cities and towns as aforesaid, we find, determine and award as follows:

Chapter 439 of the Acts of 1889 provides for the construction, maintenance and operation as public works of two systems of trunk and intercepting sewers, which are together adapted to receive, convey and discharge into the sea the entire sewage of a large and populous metropolitan district,

embracing the city of Boston and seventeen other cities and towns in the Charles and Mystic river valleys.

The first system, known as the North Metropolitan System, and having its outlet at Deer Island, includes Arlington, Belmont, the East Boston and Charlestown districts of Boston, Cambridge, Chelsea, Everett, Malden, Medford, Melrose, Somerville, Stoneham, Winchester, Winthrop and Woburn.

The second system, known as the Charles River System, and having its outlet at Moon Island, takes in the rest of Boston, with Brookline, Newton, Waltham and Watertown.

Both systems are required by the act to "be in substantial accordance with the plans reported and recommended by the State Board of Health in its report to the Legislature of 1889."

The North Metropolitan System is accordingly to be all of new construction, excepting a minor section of trunk sewer extending from the Woburn line down to the lower Mystic Lake, which had been built by the city of Boston for the protection of its water supply. This section is to be incorporated into the system by purchase or otherwise, so that the whole of this system will be the property of the Commonwealth and under its immediate control.

Of the Charles River System, on the contrary, by far the larger and more costly part was already built. The city of Boston, at a cost of about \$4,250,000, had constructed for its own use a trunk sewer, with the necessary pumping and other works, from the intersection of Huntington Avenue and Camden (now called Gainsborough, Street down to Moon Island; and had thus provided for the sewage of substantially its whole territory (not tributary to the other system) excepting the Brighton district and an area of some nine hundred acres adjacent to Brookline and the south bank of Charles River. The report of the State Board of Health

recommends the extension of this trunk sewer from Camden street up the Charles River valley to Waltham; and that arrangements be made with Boston to receive and discharge through this sewer the sewage which should be collected and brought to Camden street by such extension.

The city sewer from Camden street down to Moon Island is thus made an essential part of the plan of the Charles river system; and, in order to insure the working of the system as a whole, in case of failure to make amicable arrangements with the city, the act gives to the Commonwealth the right to purchase or take, or to enter and use by agreement or otherwise, any existing sewer necessary for carrying out the plans and recommendations of the State Board of Health.

Two courses are, therefore, open under the act: *first*, the city of Boston may continue to own, maintain and operate, as heretofore, the section below Camden street, receiving and handling at the same time, for a compensation to be fixed by agreement or otherwise, the sewage delivered by the section above Camden street; or, *second*, the Commonwealth may purchase or take from the city the section below Camden street, and so hold, maintain and operate the entire Charles river system as its own.

In the *first* case, the cost (estimated at about \$800,000) of the upper section only, and the expense (including the compensation paid the city as above) of maintaining and operating that section only, would require to be provided for and apportioned under the act; and, in that case, it is obvious that only that part of Boston which is tributary to the upper section should be made to contribute with the other cities and towns to such cost and expense. In the *second* case, the cost (probably exceeding \$5,000,000) as well as the very largely increased expense of maintenance and operation, of the entire system from Waltham to Moon island, would re-

quire to be provided for and apportioned under the act ; and, in this case, it is equally clear that all that portion of Boston which is tributary to the entire system should contribute to the cost and expense.

We have found it necessary, therefore, before making the apportionment for this system, to ascertain which of the above courses is likely to be adopted ; and we are satisfied, upon the evidence and the best information at our command, that for the present, and probably during the whole term of five years covered by this award, the section below Camden street will continue to be owned, maintained and operated by the city of Boston, but under an arrangement to receive, pump and discharge at Moon island, for an agreed compensation, the sewage from the section above Camden street. We are advised that negotiations to this end, including also the purchase by the Commonwealth of the sewer recently built by the city from Camden up to Parker street in the line of the upper section, are already well advanced.

We have accordingly made the apportionment for the Charles river system upon the assumption that this will be substantially the course pursued ; and in so doing have included with the other cities and towns in this system only so much of the city of Boston as is tributary to the section above Camden street. If, however, it should hereafter be found expedient for the Commonwealth to purchase or take from the city the section below Camden street, and at so early a day as to require a revision of this award before its term expires, it will be possible for the General Court, while making (as it must) provision by an increased loan or otherwise to meet the large additional cost which such purchase or taking would involve, to provide also, if no other way appear, for such reapportionment for this system as its changed conditions may then require.

The moneys which the several cities and towns are required to pay annually into the treasury of the Commonwealth are for two distinct purposes: *first*, to meet the interest and sinking fund requirements of the Metropolitan Sewerage Loan which the act authorizes to be issued, to the amount of \$5,000,000 for defraying in the first instance the cost of constructing the two systems; and, *second*, to meet the annual cost of the maintenance and operation of the systems after they are completed. The amounts of money which may be necessary from year to year for each of these purposes are to be ascertained in the manner prescribed in the act. We have only to determine the proportions in which the respective amounts, when so ascertained, shall be paid in by the several cities and towns.

We have come to the conclusion that there is, upon the whole, no method more just and equitable than to apportion the payments on account of the interest and sinking fund requirements of the loan, which represents the first cost of the systems, with primary reference to the *total taxable valuations of the several cities and towns*; and the payments on account of the cost of maintenance and operation, with primary reference to *their respective populations*; making, however, in both cases such deductions or allowances in favor of any city or town as upon the facts justice and equity may seem to require. Thus, for example, the valuation and population of areas which are physically so situated that they cannot be drained into these systems have been excluded in favor of the cities and towns within whose limits such areas lie.

The valuations of May 1, 1890, and the national census of that year, have been used for the purposes aforesaid. To the total values of real and personal estate, as assessed by the local boards, have been added the values, as furnished us by the Tax Commissioner, of all bank and corporation



stocks and ships and vessels, the taxes on which are paid or accrue under State laws to the several cities and towns.

The act provides but one loan for the construction of both systems, and one sinking fund for its redemption at maturity. It is necessary, therefore, to determine, in the first place, the proportion in which each system as a whole should contribute to the interest and sinking fund requirements of the entire loan. Each system should evidently contribute in the ratio of its cost. This cannot be exactly known until the construction has been completed, but it can be estimated with substantial accuracy. The detailed estimates of the cost of each system contained in the report of the State Board of Health before referred to, have been carefully revised at our request by the Board of Metropolitan Sewerage Commissioners, who have already made considerable progress in the execution of the work. As nearly as can now be ascertained, we find that the cost of constructing the North Metropolitan system will be *eighty-five* per cent., and that of the Charles river system *fifteen* per cent., of the whole cost of constructing both systems ; and, as between the two systems, we determine these to be the proportions in which they should respectively contribute to the interest and sinking fund requirements of the whole loan.

We next determine, upon the basis before outlined, the proportion or percentage which each of the cities and towns in the North Metropolitan System should pay of the eighty-five per cent., and each of the cities and towns in Charles River System of the fifteen per cent., apportioned as above to said systems respectively ; and, by combining the two percentages, we obtain the proportions in which the several cities and towns in both systems should contribute to the interest and sinking fund requirements of the whole loan. The percentages for each system and the resulting proportions for both systems are tabulated below.



We determine and award that the several cities and towns named in said act shall annually pay money into the treasury of the Commonwealth, for the term of five years next following the year of the first issue of the scrip or certificates of debt therein named, to meet the interest and sinking fund requirements for each of said years, as estimated by the Treasurer of the Commonwealth, and any deficiency in the amount previously paid in, as found by said Treasurer, in the proportions set against the names of said cities and towns respectively in the right hand column of the following table :

*TABLE showing the Proportions in which the several Cities and Towns shall pay money to meet Interest and Sinking Fund Requirements under Chapter 439 of the Acts of 1889.*

CITY OR TOWN.	SYSTEM.	PERCENTAGES EACH SYSTEM.	PROPORTIONS BOTH SYSTEMS.
Arlington,	North Met.,	2.45 of 85.00	2.08
Belmont,	North Met.,	1.53 of 85.00	1.30
Boston,	North Met.,	20.45 of 85.00	20.83
Boston,	Charles River,	23.02 of 15.00	
Brookline,	Charles River,	34.32 of 15.00	5.15
Cambridge,	North Met.,	27.87 of 85.00	23.69
Chelsea,	North Met.,	8.46 of 85.00	7.19
Everett,	North Met.,	3.10 of 85.00	2.64
Malden,	North Met.,	7.47 of 85.00	6.35
Medford,	North Met.,	4.94 of 85.00	4.20
<b>Melrose,</b>	North Met.,	2.65 of 85.00	<b>2.25</b>
Newton,	Charles River,	26.82 of 15.00	4.02
Somerville,	North Met.,	12.83 of 85.00	10.91
Stoneham,	North Met.,	1.33 of 85.00	1.13
Waltham,	Charles River,	10.61 of 15.00	1.59
Watertown,	Charles River,	5.23 of 15.00	.79
Winchester,	North Met.,	1.99 of 85.00	1.69
Winthrop,	North Met.,	1.32 of 85.00	1.12
Woburn,	North Met.,	3.61 of 85.00	3.07
Total,	- -	- - -	100.00

The annual cost of the maintenance and operation of each system is required by the act to be estimated by the Board of Metropolitan Sewerage Commissioners and certified to the Treasurer of the Commonwealth. This has been done for each of the five years covered by this award, and copies of the estimates are printed in the second annual report of said board, at pages 21 and 22.

It appears by the estimate for the North Metropolitan System, that the progress of the work is expected to be such that the seven lower cities and towns in the system can have the use of the sewer twelve months earlier than the seven upper ones. The estimated expense for this period (\$62,400) should evidently be treated as chargeable to the lower seven only, and the balance of the estimated expense for the term (\$126,600) as chargeable to all the cities and towns in the system. The apportionment for this system has been made accordingly.

In other respects, the cost of maintenance and operation for both systems has been apportioned on the basis hereinbefore indicated. The results are tabulated below.

We determine and award that the several cities and towns named in said act, and belonging to each of said systems, shall annually pay money into the treasury of the Commonwealth for the aforesaid term of five years, to meet the cost of maintenance and operation of said systems respectively for each of said years, as estimated by the said board and certified to said treasurer, and any deficiency in the amount previously paid in, as found by said treasurer, in the proportions set against the names of said cities and towns respectively in the following table:

*TABLE showing the Proportions in which the Cities and Towns in each System Shall pay money to meet Cost of Maintenance and Operation under Chapter 439 of the Acts of 1889.*

NORTH METROPOLITAN SYSTEM.		CHARLES RIVER SYSTEM.	
CITY OR TOWN.	PROPORTIONS.	CITY OR TOWN.	PROPORTIONS.
Arlington, . . .	1.25	Boston (Brighton and part of city proper),	25.05
Belmont, . . .	.46	Brookline, . . .	14.16
Boston (East Boston and Charlestown),	22.65	Newton, . . .	29.35
Cambridge, . . .	26.39	Waltham, . . .	22.82
Chelsea, . . .	10.52	Watertown, . . .	8.62
Everett, . . .	4.14		
Malden, . . .	8.68		
Medford, . . .	2.46		
<b>Melrose,</b> . . .	<b>1.86</b>		
Somerville, . . .	15.14		
Stoneham, . . .	1.36		
Winchester, . . .	1.08		
Winthrop, . . .	1.02		
Woburn, . . .	2.99		
Total, . . .	100.00	Total, . . .	100.00

We find, as a fact, that the first issue of the scrip or certificates of debt authorized by said act was made in April of the year 1890. The understanding of all parties, so far as appears, that the term of five years covered by this award embraces the calendar years 1891 to 1895, both inclusive, seems to us to be correct.

(Signed)

EBENEZER R. HOAR.

WILLIAM C. ENDICOTT.

JOHN E. SANFORD.

BOSTON, November 7, 1891.

[COPY.]

## SUPREME JUDICIAL COURT.

3209. SUFFOLK, EQUITY.

HOSEA KINGMAN AND OTHERS, METROPOLITAN SEWERAGE  
COMMISSIONERS PETITIONERS.

And now upon the above entitled petition it is ordered that Ebenezer R. Hoar of Concord, William C. Endicott of Salem, and John E. Sanford of Taunton, be and they are here by appointed Commissioners under Section 13 of Chapter 439 of the Acts of the year 1889, to determine the proportion in which the several cities and towns named in said act shall annually pay money into the treasury of the Commonwealth for the term of five years next following the year of the first issue of the scrip or certificates therein named, for the purpose therein set forth, and to perform all other duties and to exercise all powers imposed or conferred by law upon the three Commissioners whose appointment is provided for in and by said Section 13 of said Act.

By the Court,

JOHN NOBLE, Clerk.

MAY 26, 1891.

Copy, Attest : JOHN NOBLE, Clerk.

## AUDITOR'S REPORT.

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*To the inhabitants of Melrose:*

In compliance with the provisions of Chapter 221 of the Acts of the year 1889, I have the honor to report as follows:

I have examined the books of the Treasurer, Collector and Water Registrar, and find them correctly kept and proper vouches for all the transactions they contain.

In compliance with the vote of the town I have compiled the annual Town Report in a manner which I trust will be acceptable.

Respectfully,

EDWIN C. GOULD,

Auditor.

# EXPENSES OF THE TOWN OF MELROSE

FOR THE

YEAR ENDING DECEMBER 31, 1891,

As compiled by the Auditor, from the Original Vouchers.

## BAND STAND.

March appropriation . . . . .	\$100 00
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### EXPENDED.

Dunton & Potter, advertising . . . . .	\$ 1 50
Melrose Journal, advertising . . . . .	1 50
Perry Bros., 3 lanterns . . . . .	10 35
Upham, A. E., contract . . . . .	86 65
	<hr/>
	\$100 00

## CONTINGENT.

Unexpended balance 1890 . . . . .	67
March appropriation . . . . .	\$2,000 00
Nov. 19, Treasurer authorized to borrow . . . . .	800 00
	<hr/>
	\$2,800 67

### RECEIPTS.

Briggs, Moses, auctioneer's license . . . . .	\$2 00
Ellison, C. W., " " . . . . .	2 00
Levemen, M., pedlar's " . . . . .	14 00
Lovejoy, S. A., auctioneer's " . . . . .	2 00
Nowell, J. T., " " . . . . .	2 00
Barry House, rent of . . . . .	136 00
McLaughlin, F. M., milk license . . . . .	30 00
	<hr/>
	\$188 00
<i>Amount carried forward, . . . . .</i>	<hr/>
	\$2,988 67

*Amount brought forward,* . . . \$2,988 67

## EXPENDED.

American Express . . . .	\$1 75
Austin, J. S., carriages . . . .	17 00
Boston Herald Co., advertising . . . .	17 63
Boston Book Co., books . . . .	5 35
Babb & Stephens, Assessors' and Col- lector's books . . . .	44 25
Barry & Co., F. W., envelopes . . . .	90
Bigelow, Kennard & Co., pitcher for Moderator . . . .	125 00
Belknap & Co., rubber stamps . . . .	1 25
Boyd, Wm., opening school-house Reg. of Voters . . . .	1 00
Carrie & Co., W. A., check book, Treasurer	10 00
Cassey, J., whitewashing Barry house	1 00
Coburn Bros., blank book Treasurer . .	1 00
Commonwealth of Mass., blank book, Reg. of Voters . . . .	4 50
Dunton & Potter, 2000 town reports	386 75
" " printing voting list	146 95
Dunton & Potter, " sundries Assessors and Collector . . . .	99 50
Dill, J. A., lunches (election days) . .	78 00
Deering, J. P., lumber, Barry house . .	1 40
Dimond & Co., rubber stamps and pads	2 70
Drown, O. E., ringing bell . . . .	5 00
" " numbering buildings . . . .	18 90
Ellison, C. W., postage stamps . . . .	21 00
Eastman's express, teaming . . . .	1 05
Gordon, C. S., ballot clerk, polls, March,	5 00
Gould, E. C., ballot clerk, polls, March	5 00
Harris, G. N., ballot clerk, polls, March	5 00
Woodward, Geo., ballot clerk, polls, March	5 00
Gould, E. C., inspector, polls, November	5 00
Babb, E. E., inspector, polls, November	5 00
Gordon, C. S., dep. inspector, polls, "	5 00

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*Amounts carried forward* . . . \$1,026 88 \$2,988 67



<i>Amounts brought forward</i>	.	.	\$1,026 88	\$2,988 67
Jones, G. R., dep. inspector, November			5 00	
Bailey, T. T., teller, November	.		5 00	
Brown, F. H., " "	.		5 00	
Cochrane, C. W., " "	.		5 00	
Farrar, S. D., " "	.		5 00	
Harlow, C. W., " "	.		5 00	
Harris, G. N., " "	.		5 00	
Kilgore, R. D., " "	.		5 00	
Lovejoy, S. A., " "	.		5 00	
Nowell, J. T., " "	.		5 00	
Parker, A. W., " "	.		5 00	
Stantial, G. C., " "	.		5 00	
Stinson, G. W., " "	.		5 00	
Guild & Son, H., jewel for Moderator.			55 00	
Geist, Justus, judgment against town	.		146 02	
Gibbons, H. R., stock and labor, Barry house	.	.	4 30	
Howard Watch & Clock Co., repairs town clock	.	.	5 00	
Harris, G. N., service Superior Court, approval of By Laws	.	.	14 70	
Hesseltine, F. S., services Fox, Geist and Norcross cases	.	.	372 12	
Hughes, W. N., stationery and printing	.	.	8 00	
King, Geo. F. & Merrill, stationery and blank books	.	.	23 85	
Lane, A., postage and envelopes, 1890			18 51	
Loring, C. F., services Superior Court approval By Laws.	.	.	13 85	
Larrabee, J., service clerk board of Selectmen, 1890-91	.	.	50 00	
<i>Amounts carried forward</i>	.	.	\$1,803 23	\$2,988 67

<i>Amounts brought forward</i>	\$1,803 53	\$2,988 67
Larrabee, J., postage and stationery,		
1890	17 60	
Larrabee J., compiling town report		
1890	50 00	
Larrabee, J., collecting, recording and		
indexing, births, marriages and		
deaths	115 70	
Larrabee & Stearns, pencils, ink, etc.	1 60	
Lynde, A. Selwyn, adv. tax, estate G.		
Hutchins	3 50	
Margeson, J. B., Auditor's letter-box	2 90	
Marshall, J., labor, forest fires	4 00	
McLaughlin, F. M., cash paid for		
court fees on J. Merrill Brown		
suit	45 33	
McLaughlin, Ralph, ringing bell	2 00	
Meek, H. M., election return station-		
ery	7 10	
Melrose Journal, 100 Poll Tax lists	95 00	
"        "        printing town war-		
rants	95 00	
Melrose Journal, adv. notice of hear-		
ings, etc.	68 40	
Nowell, Mrs. E. H., damages, break		
in water main	50 00	
Norcross Ex., expressage	1 90	
Howes, J. C., stock and labor, Barry		
house	6 75	
Philpot, R., cleaning cesspool, Barry		
house	6 00	
<i>Amounts carried forward,</i>	\$1,376 01	\$2,988 67

<i>Amounts brought forward,</i>	\$1,376 01	\$2,988 67
Pierce & Son, A. B., returns of deaths		
1890 . . . . .	20 25	
Pierce & Son, A. B., return of deaths		
1891 . . . . .	28 50	
Pierce & Son, A. B., burial of unknown		
infant . . . . .	5 00	
Pierce, A. B., posting and distributing		
town warrants . . . . .	107 00	
Pratt Dexter, horse for Assessors,		
1890 . . . . .	25 00	
Pratt, Dexter, expense forest fires . . . . .	5 40	
Rand, R. M., posting notices . . . . .	10 00	
Ripley, T. W., printing for Treasurer . . . . .	5 50	
Stevens, W. C., surveying and superin-		
tending Spot pond brook . . . . .	55 00	
Thorp & Adams, Auditor's book . . . . .	13 50	
Weeks, I. C., ringing bell . . . . .	2 00	
Wilkinson & Co., A. J., door numbers . . . . .	16 20	
Yerrington, J. M. W., printing report		
of hearing Metropolitan sewer . . . . .	36 35	
Clark, J. S., M. D., returning births,		
1890 . . . . .	5 50	
Dike, J., M. D., returning births, 1890 . . . . .	1 75	
Jack, E. S., M. D., " " " . . . . .	5 25	
Morse, F. H., M. D., " " " . . . . .	7 50	
Odlin, C. C., M. D., " " " . . . . .	8 75	
Prior, C. E., M. D., " " " . . . . .	1 00	
Selee, A. M., M. D., " " " . . . . .	4 00	
Williams, H. C., M. D., " " " . . . . .	1 25	2,740 71
Balance, . . . . .		\$247 96

## ELECTRIC LIGHT COMMITTEE.

Balance, 1890,	.	.	.	.	.	.	.	\$141 00
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## EXPENDED.

Carpenter, Eugene F., services	.	.	\$85 00	
Melrose Journal, printing and postals	.		30 00	
Pierce, A. B., distributing circulars	.		15 00	130 00
				<hr/>
Balance	.	.	.	\$11 00

## ELL POND BROOK.

Appropriation from bank and corporation tax	\$4,048 42
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## EXPENDED.

Benson, S. E. & Co., cement	.	.	\$40 25	
Dunton & Potter, advertising proposals			2 00	
Herald, Boston,	"	"	4 00	
Journal, Melrose,	"	"	3 00	
Deering, J. P., lumber	.	.	62 92	
Ellis, G. B., & Co., use of derrick	.		35 00	
Gibbons, R., labor and use of stock	.		59 87	
Gibbons, J. R., labor and use of stock			18 00	
Lynn and Boston Railroad, old rails			94 50	
McQueston, Geo. & Co., lumber	.		29 14	
Newhall, T. R., 2,520 feet covers	.		1,260 00	
Philpot, R., repairing concrete	.		71 52	
Stevens, W. C., surveying	.	.	74 00	
			<hr/>	<hr/>
			\$1,754 20	
Labor and teams	.	.	\$2,294 22	\$4,048 42

## FIRE ALARM.

Appropriation	.	.	.	.	.	.	.	\$650 00
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## EXPENDED.

Norcross' express, expressage	.	.	.	.	50	
The N. E. Gamewell Co., building line	642	75			643	25
						<hr/>
Balance	.	.	.	.	.	\$6 75

## FIRE DEPARTMENT.

Balance, 1890	.	.	.	.	.	\$ 07
Appropriation	.	.	.	.	\$4,250 00	

## EXPENDED.

Lynde, A. W., chief engineer	.	.	\$50 00
Lear, Samuel, engineer and clerk	.	60 00	
Parker, A. W.    "	.	50 00	
		<hr/>	
		\$160 00	

*Russell Hose Co., No. 1.*

## Services 1 year.

Norton, H. R.	.	.	.	.	\$35 00
Bartlett, G. N.	.	.	.	.	35 00
Smith, A. B.	.	.	.	.	35 00
Hawkes, T. J.	.	.	.	.	35 00
Holbrook, J. M.	.	.	.	.	35 00
Emerson, J. W.	.	.	.	.	35 00
Stantial, T. B.	.	.	.	.	35 00
Upham, A. L.	.	.	.	.	35 00
					<hr/>

<i>Amounts carried forward,</i>	.	\$280 00	\$4,250 07
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<i>Amounts brought forward,</i>	.	.	\$280 00	\$4,250 07
Burnham, G. E.	.	.	35 00	
Bartlett, S. A.,	.	.	35 00	
Woodward, C. F.	.	.	35 00	
Stockwell, D. T.	.	.	5 84	
Howard, W. T.	.	.	26 25	
Rand, R. M.	.	.	14 59	
			<hr/>	
			\$431 68	
Howard, W. T., steward, 9 months	.		\$30 00	
Emerson, R. W., steward 3 months	.		10 00	
Bartlett, G. W., horses	.	.	40 00	
Benson, S. E. & Co., coal	.	.	92 00	
Bugbee & Barrett, sundries	.	.	3 33	
Durrell, W. H., two outside windows	.		3 20	
Holbrook & Norton, "	.	.	4 00	
Morse, A. J. & Son, rubber pipe	.		7 50	
McCoubry, Thos., bolts	.	.	2 65	
Malden & Melrose Gas Light Co.,				
20,300 ft. gas	.	.	38 56	
Perry Bros., hinges, screws and nails			1 88	
Edwards, Jos., wrench	.	.	1 50	
			<hr/>	
			\$666 30	

*N. D. Blake Hose Co., No. 2.*

## Services of men, 1 year.

Gibbons, Frank, Jr.	.	.	\$35 00	
Gibbons, Jos. R.	.	.	35 00	
Stantial, E. B.	.	.	35 00	
Simpson, H. W.	.	.	35 00	
Gibbons, R., Jr.	.	.	35 00	
Gibbons, Frank	.	.	35 00	
Fanley, Wm.	.	.	35 00	
			<hr/>	

*Amounts carried forward* . . \$245 00 \$4,250 07

<i>Amounts brought forward,</i>	.	.	\$245 00	\$4,250 07
Simpson, F. W.	.	.	35 00	
Phipps, W. F.	.	.	35 00	
Axford, J. R.	.	.	35 00	
Buchanan, P.	.	.	35 00	
Spear, F. R.	.	.	17 50	
Armington, A.	.	.	17 50	

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\$420 00

Gibbons, Frank, steward	.	.	13 33	
Armington, A., "	.	.	6 67	
Gibbons, Rob't, Jr., "	.	.	20 00	
Boardman, W. W., horses	.	.	3 00	
Bartlett, G. W., "	.	.	36 00	
Gilman, L. W., rent	.	.	250 00	
Morse, A. J. & Son, nozzle and wrench	.	.	17 25	
Marshall, J., coal and wood	.	.	39 75	
Malden & Melrose Gas Light Co.,				
10,900 ft. gas,	.	.	20 96	
Parker, A. W., setting glass	.	.	3 50	
Edwards, J., repairing	.	.	3 15	

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\$833 61

*Highland Hose Co. No. 3.*

Services of men, 1 year.

Churchill, F.	.	.	\$35 00	
Newhall, L.	.	.	35 00	
Fuller, G. E.	.	.	35 00	
Fuller, C. H.	.	.	35 00	
Cass, G.	.	.	35 00	
Abbott E.	.	.	35 00	
Munn, W.	.	.	35 00	
Porter, T.	.	.	35 00	

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*Amounts carried forward,* . . . \$280 00 \$4,250 07



<i>Amounts brought forward,</i>	.	.	\$280 00	\$4,250 07
Allen, G. F.	.	.	26 25	
Day, A. L.	.	.	32 09	
Story, A.	.	.	32 09	
Story, F.	.	.	17 50	
			<hr/>	
			\$387 93	
Cass, G. N., steward,	.	.	13 33	
Story, A.,	"	.	26 67	
Benson, S. E. & Co., coal and wood			34 50	
Cass, G. N., labor and stock	.	.	10 00	
Curry & Hebblethwaite	"	.	47 05	
Deering, J. P., lumber	.	.	8 62	
Goss, C. B. & F. H., drain pipe	.	.	4 70	
Lear, Samuel, labor and stock	.	.	20 50	
Lynde, A. W., building cellar	.	.	195 00	
Pearson, E. G., cleaning clock	.	.	1 25	
Robinson, S. A. & Co., horses	.	.	32 00	
Stewart, W. H., labor and stock	.	.	19 63	
Singer, J. Jr., sundries	.	.	8 17	
			<hr/>	
			\$809 35	

*Liberty Bigelow H. & Co. No. 1.*

## Services of men, 1 year.

Johnson, T. B.	.	.	.	.	.	\$35 00
Perry, B. F.	.	.	.	.	.	35 00
Edwards, J.	.	.	.	.	.	35 00
Lynde, W. A.	.	.	.	.	.	35 00
Parker, D. O.	.	.	.	.	.	35 00
Ames, B.	.	.	.	.	.	35 00
Tyzzar, F. H.	.	.	.	.	.	35 00

*Amounts carried forward,* . . \$245 00 \$4,250 07

<i>Amounts brought forward,</i>	.	.	\$245 00	\$4,250 07
Wiswell, D. W.	.	.	35 00	
Kelley, T.	.	.	35 00	
Stewart, W. H.	.	.	35 00	
Tyzzar, J.	.	.	35 00	
Robertson, H.	.	.	35 00	
Johnson, W. E.	.	.	35 00	
McDonald, A.	.	.	35 00	
Edwards, C. W.	.	.	35 00	
Gordon, C. S.	.	.	35 00	
Lakin, C.	.	.	35 00	
Richardson, J. E.	.	.	35 00	
Whidden, R.	.	.	35 00	
Ellis, G. B.	.	.	35 00	

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\$700 00

Lynde, W. A., steward	.	.	40 00	
Benson, S. E., wood	.	.	1 25	
Curry & Hanmer, Sampson jack	.	.	5 75	
Eastman's Express, horses to fires	.	.	86 50	
Edwards, Jos., repairing	.	.	13 62	
Johnson, W. E., rope and labor	.	.	1 00	
Tyzzar, F. H., painting and lettering	.	.	3 25	

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\$851 37

*Melrose Steamer.*

Edwards, J., engineer, 12 mos.	.	.	\$195 00	
Howard, W. T., stoker, 9 "	.	.	45 00	
Edwards, Chas., " 3 "	.	.	15 00	
Benson, S. E. & Co., coal	.	.	12 00	
Eastman's Express, horses	.	.	5 00	
Edwards, J., setting tires and repairs	.	.	9 50	

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*Amounts carried forward,* . . \$281 50 4,250 07

<i>Amounts brought forward,</i>	.	.	\$281 50	\$4,250 07
Howard, C., stoker	.	.	15 00	
Lynde, A. W., horses	.	.	50 00	
Mitchell M'fg Co., badges	.	.	3 50	
Tyzzar, F. H., painting and lettering	.	.	5 00	
			<hr/>	
			\$355 00	

*Fire Alarm.*

Holbrook, J. M., services	.	.	\$62 50	
Bartlett, G. W., horse and buggy	.	.	5 00	
Burt & Henshaw, vitrol	.	.	17 75	
Holbrook & Norton, sundries	.	.	90	
Stevens, G. M., coppers	.	.	3 60	
Prescott, J. B. & Son, zincs	.	.	26 20	
Sweeney, Thos. F., labor, 24 days	.	.	60 00	
			<hr/>	
			\$175 95	

*Miscellaneous Bills.*

Bugbee & Barrett, sundries	.	.	\$1 57	
Boston Woven Hose Co., hose	.	.	250 00	
Callahan Co., C., repairing hose	.	.	2 00	
Dunton & Potter, printing	.	.	8 00	
Eastman's Express, expressage	.	.	21 73	
Frost & Hawes, sundries	.	.	5 13	
Howes, J. C., 1-2 ex. slate sink	.	.	22 77	
Howes, J. C., stock and labor	.	.	17 74	
Maclachlan, A. L., sundries	.	.	3 35	
Morse, A. J. & Son, pipe and belts	.	.	36 10	
Norcross' Express, expressage	.	.	1 05	
Porter, H. K., electric wire cutter	.	.	15 00	
Westgate, G. L. & Son, mittens	.	.	14 00	
			<hr/>	

*Amounts carried forward,* . . . \$398 44 \$4,250 07

*Amounts brought forward,* . . . \$4,250 07

## RECAPITULATION.

Engineers . . . . .	\$160 00	
Russell Hose, No. 1 . . . . .	666 30	
N. D. Blake " " 2 . . . . .	833 61	
Highland " " 3 . . . . .	809 35	
Lilberty Bigelow H. & L., No. 1 . . . . .	851 37	
Steamer Melrose . . . . .	355 00	
Fire Alarm . . . . .	175 95	
Miscellaneous . . . . .	398 44	4,250 02
		<hr/>
Balance, . . . . .		05

• GROVE STREET SCHOOL BUILDING  
EXTENSION.

Treasurer authorized to borrow . . . \$11,000 00

## EXPENDED.

Clough, Geo. A., architect services . . . . .	\$250 00	
Lancaster & Co., J. J., contract . . . . .	148 45	
Upham, A. E., on account contract . . . . .	6,700 00	7,098 45
		<hr/>
Balance . . . . .		\$3,901 55

## HEALTH DEPARTMENT.

Jan. 1. Balance . . . . .	\$219 74	
March. Appropriation . . . . .	150 00	
June 22. Treasurer authorized to bor- row . . . . .	1,500 00	
		<hr/>
<i>Amount carried forward,</i> . . . . .		\$1,869 74

*Amount brought forward,* . . . \$1,869 74

## EXPENDED.

Bartlett, G. W., horse and buggy . . .	2 00	
Burke, G. W., postage . . .	1 00	
Drown, O. E., services fumigating . . .	27 00	
Dunton & Potter, adv. and printing . . .	11 50	
Elms, J. O., labor and team . . .	22 50	
“ “ on acc't contract . . .	451 50	
Hunnewill & Sons, J. W., removing nuisance . . . . .	3 00	
Kirwin & Co., Thomas, removing swill, etc. . . . .	165 40	
Massachusetts Association of Board of Health dues, . . . . .	9 00	
MacMahan, P., burying dog . . .	1 00	
McLaughlin, F. M., service agent . . .	25 00	
Melrose Journal, adv. and printing . . .	40 50	
Parker, A. W., painting sign . . .	2 25	
Pierce, A. B., distributing circulars . . .	20 00	781 65
Balance . . . . .		\$1,088 09

## HIGHWAY DEPARTMENT.

Balance, 1890 . . . . .		\$30 08
Balance transferred from Botolph street . . . . .	119 17	
Balance transferred from Cedar Park drain . . . . .	8 00	
Balance transferred from Cedar Park ledge . . . . .	100 00	
Balance transferred from crossings and gutters . . . . .	42 53	
Balance transferred from drainage . . . . .	114 99	
Balance transferred from Gooch street . . . . .	49	
Balance transferred from Highland street . . . . .	400 00	
Balance transferred from Lebanon street . . . . .	26	
Balance transferred from Melrose street . . . . .	70	
Balance transferred from Park street . . . . .	199 98	
Balance transferred from stone crossings . . . . .	460 08	
Balance transferred from Walton Park . . . . .	308 00	
Balance transferred from stone crusher . . . . .	32 55	1,787 47
March. Appropriation . . . . .		15,000 00

## RECEIPTS.

East Middlesex railroad removing snow . . . . .	69 25	
East Middlesex railroad cleaning up Main street . . . . .	200 00	
Ellis & Co., G. B., stone . . . . .	92 50	
Gove & Co., H., use of steam road roller . . . . .	84 86	
Lewis, D. F., freight refunded . . . . .	79 77	
Lynde, A. W., stone . . . . .	29 00	
Lynde, H., gravel . . . . .	46 35	
Melrose Common, labor . . . . .	54 00	
Preble, F., crushed stone . . . . .	14 00	
		669 73
<i>Amount carried forward, . . . . .</i>		\$17,487 28

*Amount brought forward,* . . . \$17,487 28

*Damages.*

Bond, Thos. P., removal of wall . . . . .	150 00
Bowen, J. H., accident on Howard street . . . . .	40 00
Cassell, Thos., removal of house, Park street . . . . .	100 00
Richardson, H. C., damage to water cart . . . . .	7 50
	<hr/>
	\$297 50

*Drainage, Cost of Material.*

Benson & Co., S. E., cement . . . . .	4 50
Boston & Maine Railroad, freight on pipe and catch basin . . . . .	61 90
Burrell & Swett, 1260 feet 8-in. pipe . . . . .	250 05
" " 26 catch basin covers . . . . .	154 25
Goss, C. B. & F. H., 680 feet 12-in. pipe . . . . .	263 80
Howes, J. C., 2042 feet 6, 8, 10 and 12-in. pipe . . . . .	485 58
Holbrook, J. L., 1 8-in. T. . . . .	1 20
Hoffman, C. L., concreting . . . . .	7 54
Lewis, D. W., 2100 feet 6, 8, 10 and 12-in. pipe . . . . .	320 24
Lewis, D. W., 12 catch basin covers . . . . .	86 40
Whittier, E. L., clearing Ell pond brook . . . . .	28 00
	<hr/>
	\$1,663 46

*Amount carried forward,* . . . \$17,487 28



*Amount brought forward,* . . . \$17,487 28

*Improvements and Additions to Crusher Plant.*

Burrell & Swett, keys . . . .	60
Deering, J. P., lumber . . . .	82 80
Foster & Co., F. E., lumber . . .	37 59
Goodno, W. A., labor and stock . .	24 25
Perry Bros., hardware . . . .	2 25
Rink, J. J., boiler plate . . . .	64 02
	<hr/>
	\$211 51

*Labor and Teams.*

Ellis, W. B., Sup't., 61 days, @ \$3.00	\$183 00
Laborers, 40½ days, 3.00	121 50
“ 190¾ “ 2.50	476 87
“ 2261 “ 2.00	4,522 00
“ 305¼ “ 1.76	537 24
“ 710 “ 1.75	1,242 53
“ 171½ “ 1.50	257 25
Teams, 1268 “ 1.75	2,219 10
	<hr/>
	\$9,559 49

*Miscellaneous Bills.*

Ames Plow Co., 2 plows . . . .	\$40 50
Bartlett, G. W., horse hire . . . .	2 00
B. & M. Railroad, old ties . . . .	19 20
“ “ freight bill . . . .	116 16
Breck & Son, Jos., shovels and rakes	14 76
Bugbee & Barrett, sundries . . . .	56 58
Burrell & Swett, sand and pipe . . .	10 00
Carlin, Geo., labor setting posts and railings . . . .	10 00
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*Amounts carried forward* . . . \$269 20 \$17,487 28

<i>Amounts brought forward</i>	\$269 20	\$17,487 28
Connors, J., labor setting posts and railings	2 00	
Driscoll, D., labor setting posts and railings	3 00	
Drown, O. E., labor setting posts and railings	22 50	
McCarthy, J., labor setting posts and railings	3 00	
McLaughlin, F. M., labor setting posts and railings	7 75	
Townes, W. H., labor setting posts and railings	3 00	
Cook, C. W., labor and teams	21 85	
Deering, J. P., lumber	92 18	
Dunton & Potter, advertising	2 50	
Eastman's express, teaming	15 30	
Edwards, J., repairing	48 52	
Fletcher, H. E. & Co., flagging and edgestones	191 58	
Elliott, W. P., 440 loads gravel	44 00	
Hunnewell, J. W., 165 loads gravel	16 50	
Lynde, J. O., 1,015 " "	101 50	
Foster, F. E. & Co., lumber	17 80	
Gilman, L. W., oil etc.	69	
Goodno, W. A., labor and stock	69 94	
Hoffman, C. L., setting edgestones	10 90	
Hoffman, C. L., repairing driveways		
Essex street	28 71	
Hoffman, C. L., concreting Walton Park	154 80	
<i>Amounts carried forward,</i>	\$1,127 22	\$17,487 28

<i>Amounts brought forward,</i>	.	.	\$1,127 22	\$17,487 28
Howard, Otis, labor	.	.	2 50	
Hopkins, J., building wall, Greenwood street	.	.	18 00	
Harvey, H., harrows and tools	.	.	38 25	
Johnson, T. B., labor and stock	.	.	4 75	
McCoubry, T., sharpening tools and stock	.	.	239 95	
McClintock & Woodford, use of steam roller	.	.	165 00	
McDormand, Warren & Co., ladder	.	.	10 50	
Nims, estate of E. M., labor and stock	.	.	6 17	
Palmer, L., 335 feet flagging	.	.	33 50	
Parker, A. W., labor and stock	.	.	20 40	
Parker, F. G., expense to Newport, R. I., steam roller	.	.	3 68	
Parker & Wood, wheelbarrows	.	.	19 00	
Perry Bros., hardware	.	.	34 89	
Perrin, Seaman & Co., shovels and picks	.	.	46 72	
Philpot, R., setting edgestones	.	.	57 40	
Philpot, R., concreting driveway, Town Hall	.	.	15 25	
Philpot, R., building sidewalk, Linwood street	.	.	100 00	
Richardson, H. C., watering street	.	.	87 00	
Selectmen, expense to Newport, R. I., steam roller	.	.	18 50	
Stevens, W. C., surveying	.	.	276 50	
<i>Amounts carried forward,</i>	.	.	\$2,325 18	\$17,487 28

<i>Amounts brought forward,</i>		\$2,325 18	\$17,487 28
Wellington, A. J., balance on crusher	400 00		
Whittier, E. L., building sidewalk	142 30		
Woodward, D. R., labor and stock	7 00		
Wyoming cemetery, stone, Duff contract	40 00		
Sidewalk department, concrete crossings and gutters	400 64		
		\$3,315 12	

*Removing Snow.*

Cook, C. W., men and horses	\$33 25		
Ellis, G. B. & Co., men and horses	60 68		
Gibbons, J. R., " "	29 25		
Lynde, A. W., " "	56 50		
Marshall, J., " "	52 16		
		\$231 84	

*Superintendent of Streets.*

Ellis, W. B., 9 months	\$749 98		
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*Stone Crusher.*

Benson, S. E. & Co., coal and wood	\$230 84		
B. & M. R. R., freight on castings	10 32		
Bradley, Hastings & Co., anvil, forge, etc.	40 50		
Chesterton, A. W. & Co., laces and packing	12 00		
Ellis, G. B. & Co., forcite	30 75		
Howes, J. C., labor and stock	44 21		
Kidder, Samuel, oils, waste, etc.	13 77		
Norcross' Express, teaming.	8 05		
Record, Boston Evening, advertising	76		
Sampson, G. H., forcite, etc.	47 81		

<i>Amounts carried forward,</i>		\$439 01	\$17,487 28
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<i>Amounts brought forward,</i>		\$439 01	\$17,487 28
Sawyer, A. A., engine oil		\$6 50	
Wakefield Rattan Co., oil cup and labor	2 62		
Wellington, A. J., oil, powder and drill men	122 09		
Wellington, A. J., grate, bars and concave	66 04		
		\$636 26	

*Steam Road Roller.*

Benson, S. E. & Co., coal and wood	\$118 35	
Blood, M. A., steam gauge	4 50	
Chesterton, A. W. & Co., packing	4 02	
Edwards, Jos., repairs	5 25	
Greene, F. P., labor on gear	9 60	
Kidder, Samuel, oil, can and brass cup	38 85	
Kilborn, Lincoln & Co., gear casting	4 90	
	\$185 47	

*Recapitulation.*

Damages	\$297 50	
Drainage	1,663 46	
Improvement and add'n to crusher plant	211 51	
Labor, pay rolls	9,559 49	
Miscellaneous bills	3,315 12	
Removing snow	231 84	
Salary of Superintendent of streets	749 98	
Stone crusher	636 26	
Steam road roller	185 47	
		\$16,850 63
Balance,		\$636 65

## INSURANCE.

March appropriation . . . .	\$500 00
Nov. 19, Treasurer authorized to borrow . . . .	600 00
	<hr/>
	\$1,100 00

## EXPENDED.

Burrell & Swett, policies . . . .	\$82 50	
Farnsworth, G. W., " . . . .	10 00	
Hanaford & Co., J. L., " . . . .	135 00	
Larrabee, J., " . . . .	120 00	
Leighton, R. B., " . . . .	168 00	
Westgate & Johnson " . . . .	166 75	682 25
		<hr/>
Balance, . . . . .		\$417 75

## INTEREST.

Balance . . . . .	\$1,105 23
Appropriation . . . . .	5,500 00

## RECEIPTS.

*From Collectors of Taxes, Interest Collected.*

Taxes of 1888 . . . . .	\$95 10	
“ “ 1889 . . . . .	15 19	
“ “ 1890 . . . . .	1,257 66	
“ “ 1891 . . . . .	148 40	1,516 35
Interests on deposits, year ending Dec.		
31, 1891 . . . . .		116 23
		<hr/>
		\$8,237 81

## EXPENDED.

Interest coupons on Town Hall bonds,		
\$65,000.00 @ 7 per cent. . . . .	\$4,550 00	
Boston Safe Deposit, on notes . . . . .	155 00	
Commonwealth of Massachusetts, on		
notes . . . . .	490 00	
Mrs. L. C. Haskell, on note . . . . .	100 00	
Melrose Savings Bank, “ . . . . .	954 80	
Worcester Savings Bank, “ . . . . .	400 00	
Cemetery trust fund, to Jan. 1, 1892 . . . . .	67 00	\$6,716 80
		<hr/>
Balance, . . . . .		\$1,521 01



## MELROSE COMMON.

Balance . . . . .	\$33 78
March appropriation . . . . .	100 00
	<hr/>
	\$133 78

## EXPENDED.

Highway department, labor . . . . .	54 00
	<hr/>
Balance . . . . .	\$79 78

## MEMORIAL DAY.

March appropriation . . . . .	\$200 00
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## EXPENDED.

U. S. Grant Post 4, Dept. of Mass. G. A. R. . . . .	\$200 00
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## MILITARY AID.

One-half refunded by the State.

Commonwealth of Mass., 1890 . . . . .	\$308 50
March appropriation . . . . .	300 00
	<hr/>
	\$608 50

## EXPENDED.

Davis, L. G., . . . . .	\$60 00	
Downing, E. H. . . . .	72 00	
Grover, G. W. . . . .	32 00	
Heaton, J. . . . .	132 00	
Johnson, W. A. . . . .	96 00	
McMahan, P. . . . .	55 00	
Stevens, H. W. . . . .	72 00	\$519 00
	<hr/>	<hr/>
Balance . . . . .		\$89 50

## NEW SCHOOL BUILDINGS.

*Construction, Remodelling, etc.*

May 26, 1890, Treasurer authorized to		
borrow . . . . .	\$45,300	00
Received from James McIntyre		
for dwelling house . . . . .	1,045	00
	<hr/>	
	\$46,345	00
Expended in 1890 . . . . .	25,528	00
	<hr/>	
Balance, . . . . .	\$20,817	00
Barstow Stove Co., furnaces . . . . .	\$1,000	00
Boston Electric Co., annunciator, etc. . . . .	50	00
Gibson, J. H., tinting walls . . . . .	125	00
Hardy A. C. & Co., outside windows . . . . .	18	90
Hammett, J. L., slate . . . . .	214	20
Lees, A., mantles . . . . .	68	50
Loring & Phipps, services . . . . .	500	00
Lynde, A. W., grading . . . . .	509	12
McDonald, A., contracts . . . . .	15,174	64
Pratt, D., services . . . . .	15	00
Smead Warming and Ventilating Co. . . . .	1,300	00
Winchester Furniture Co., desks . . . . .	750	95
	<hr/>	\$20,011 31
Balance, . . . . .	\$805	69

## NUMBERING BUILDINGS.

Balance, 1890 . . . . .	\$16	03
March appropriation . . . . .	25	00
	<hr/>	\$41 03

## EXPENDED.

Drown, O. E., services numbering 215		
buildings . . . . .	\$32	25
Wilkinson & Co., door numbers . . . . .	7	80
	<hr/>	40 05
Balance . . . . .		98

## POLICE DEPARTMENT.

Balance, 1890 . . . . .	\$38 85
March, appropriation . . . . .	4,900 00
Cash received, court fees . . . . .	383 78
Cash received, school department, use of telephone . . . . .	2 50
	<hr/>
	\$5,325 13

## EXPENDED.

## Paid officers, services rendered.

McLaughlin, F. M., chief . . . . .	\$866 25
Caswell, W. A. . . . .	788 25
Drown, O. E. . . . .	511 35
Fogg, C. F. W. . . . .	773 20
Rand, R. M. . . . .	598 90
Smith, J. T. . . . .	778 73
Davis, J. W. . . . .	157 50
Davis, C. S. . . . .	6 25
Fuller, C. H. . . . .	9 25
Fuller, G. E. . . . .	72 40
Livingston, W. A. . . . .	6 25
Lord, Jos. . . . .	7 00
Lynde, A. W. . . . .	12 75
Pineo, A. H. . . . .	49 25
	<hr/>
	\$4,637 33

*Miscellaneous.*

Boston Book Co., Mass. Statutes . . . . .	\$7 10
Bartlett, G. W., carriage hire . . . . .	33 50
Boardman, W. W., " " . . . . .	3 50
Channell, G. C., et. als. witness fees . . . . .	2 40
Chisam, S. A., cans . . . . .	1 00
	<hr/>

*Amounts carried forward,* . . . \$4,684 83 \$5,325 13

<i>Amount brought forward,</i>	.	.	\$4,684 83	\$5,325 13
Coggan & Schofield, services	.	.	\$25 00	
Dunton & Potter, printing and stationery			9 50	
Drown, O. E., meals furnished prisoners			27 00	
Drown, O. E., care of lockup	.	.	25 00	
Eastman's Express	.	.	1 55	
Evans, R. O., printing postals	.	.	1 75	
Frost & Hawes, pilot bread	.	.	1 08	
Howes, J. C., 2 lanterns and repairing			1 15	
Howes, J. C., 1-2 expense of slate sink			22 77	
Harvey, W. H., whitewashing lockup			2 00	
Isburgh & Co., wagon, harness and blanket			96 50	
Keating, W. E., carriage hire	.	.	3 00	
Lovell Arms Co., J. P., clubs, cuffs, etc.			23 33	
McLaughlin, F. M., expense serving				
warrants, etc.	.	.	30 00	
Newbergin, J., services detective	.		50 00	
N. E. Telegraph & Telephone Co., rental			60 00	
Noyes, Campbell & Co., buttons	.		2 50	
Perry Bros., sundries	.	.	2 18	
Smart, C. A., carriage hire	.	.	1 90	
Tyzzar, F. H., lettering wagon	.	.	1 00	\$5,071 64
				<hr/>
Balance	.	.		\$253 49

## SUPPORT OF POOR.

Jan. 1. Unexpended balance, 1890 . . . . .	\$321 66
March 17. Appropriation . . . . .	6,000 00
Nov. 19, Treasurer authorized to borrow . . . . .	1,000 00

## RECEIPTS.

Stella S. Edgerley . . . . .	169 00
City of Boston . . . . .	64 00
Town of Hingham . . . . .	8 00
Town of Wenham . . . . .	379 03
	<hr/>
	\$7,941 69

## EXPENDED.

*Board and Clothing.*

Bisbee, Mrs. G. A., 65 2-7 weeks . . . . .	\$212 17	
Barron, E. J., 12 months . . . . .	156 00	
Clark, Mary, 52 weeks . . . . .	156 03	
Dill, J. A., . . . . .	33 94	
Fields, H. G., boots and shoes and repairing . . . . .	426 35	
Farrar & Selce, overcoat . . . . .	17 00	
Gallagher, Mrs. K., 46 weeks . . . . .	92 00	
Gibbs, Mary D., 8 weeks . . . . .	16 00	
Haskins, Mrs. L. B., 65 2-7 weeks . . . . .	212 17	
Hitchins, E. R., 52 weeks . . . . .	155 90	
Hurd & Balfour, clothing . . . . .	13 29	
Johnson, M. A., 12 weeks . . . . .	34 50	
Mass. General Hospital, 2 1-7 weeks . . . . .	22 50	
Manning Bros., clothing . . . . .	21 50	
Massachusetts School for feeble minded, 52 weeks . . . . .	174 78	
Norris & Co., C. H., clothing . . . . .	21 50	
Philpot, B., 3 weeks . . . . .	9 00	
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<i>Amounts carried forward,</i> . . . . .	\$1,775 88	\$7,941 69

*Amounts brought forward,* . . \$1,775 88 \$7,941 69

*Fuel.*

Benson & Co., S. E., coal and wood .	\$257 92
Goss, C. B. & F. H., " "	134 88
Marshall, J., " "	141 65
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	\$534 45

*Groceries, Provisions, etc.*

Barker, G. U. . . . .	\$129 90
Bugbee & Barrett . . . . .	105 99
Eldridge, S. O. . . . .	36 00
Forbes, G. E. . . . .	43 14
Frost & Hawes . . . . .	10 00
Gilman, L. W. . . . .	207 49
Holbrook & Norton . . . . .	508 50
Hinckley, L. F. . . . .	147 40
Maxwell & Co., R. F. . . . .	133 55
Ryder, T. J. . . . .	508 28
Reekie, A. E. . . . .	52 68
Singer, Jr., J. . . . .	27 87
Whitcomb, S. H. . . . .	11 66
Worthen, Mrs. A. G. . . . .	21 01
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	\$1,941 57

*Medical Attendance, Medicines, etc.*

Clark, J. S., M. D. . . . .	\$50 00
Cross, H. M. & L. W., medicines .	7 20
Dike, J., M. D. . . . .	15 00
Harlow, C. W., M. D., . . . . .	14 00
Haraden, F. J., nurse . . . . .	24 00
Larrabee, J., medicines . . . . .	53 11
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*Amounts carried forward,* . . \$163 31 \$7,941 69

*Amounts brought forward,* . . . \$163 31 \$7,941 69

*Outside Relief.*

Boston, city of . . . . .	\$88 00
Brockton, city of . . . . .	195 22
Cambridge, city of . . . . .	106 50
Lowell, city of . . . . .	18 56
Lynn, city of . . . . .	140 23
Malden, city of . . . . .	162 85
Methuen, town of . . . . .	89 71
	<hr/>
	\$801 07

*Rents.*

Cobb, J. W., 1 year . . . . .	\$48 00
Larrabee, C., estate of, 10 months . . . . .	80 00
“ “ 10 “ . . . . .	130 60
Leonard, H. A., 15 “ . . . . .	180 00
Libby, R. H., 12 “ . . . . .	180 00
Locke, S., 7 “ . . . . .	59 50
Murphy, P., 12 “ . . . . .	96 00
Singer, J., 2 “ . . . . .	16 60
Upham, B. R., 10 “ . . . . .	72 25
Whittier, E. L., 12 “ . . . . .	60 00
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	\$921 75

SUPPORT OF INSANE.

Danvers Lunatic Hospital . . . . .	\$1,456 09
Worcester “ “ . . . . .	169 46
	<hr/>
	\$1,625 55

*Burial Expenses.*

Pierce, & Son, A. B., . . . . .	\$141 00
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*Amount carried forward,* . . . 

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\$7,941 69



*Amounts brought forward,* . . . . \$7,941 69

*Miscellaneous.*

Boardman, W. W. & Co., carriage . . . .	50
Jefts, W. A., storage . . . . .	13 50
Norcross' Express, moving furniture . . . .	8 50
Drown, O. E., services . . . . .	7 63

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\$30 13

## RECAPITULATION.

Board and clothing . . . . .	\$1,775 88
Fuel . . . . .	534 45
Groceries, provisions, etc. . . . .	1,941 57
Medical attendance, etc. . . . .	163 31
Outside relief . . . . .	801 07
Rents . . . . .	921 75
Support of insane . . . . .	1,625 55
Burial expenses . . . . .	141 00
Miscellaneous . . . . .	30 13
	<hr/>
	\$7,934 71

Balance, . . . . . \$6 98

Amount of bills approved by over-  
seers, unpaid . . . . . 1,202 60

Amount due from cities and towns . . . . 493 75

## PUBLIC LIBRARY.

Balance, 1890 . . . . .	\$21 79
Feb. 3, received from County Treas- urer, dog tax, 1890 . . . . .	1,079 65
March appropriation . . . . .	1,000 00

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\$2,101 44

*Amount brought forward,* . . . \$2,101 44

## EXPENDED.

Balch Bros., books . . . .	\$50 00
Bodge, G. M., " . . . .	5 16
Cupples, J. G., " . . . .	13 00
DeWolfe, Fiske & Co., books . .	466 94
Drown, O. E., care of rooms 1 year .	100 00
Dunbar, E. F., book . . . .	4 75
Dunton & Potter, printing reports, etc.	23 00
Estes & Lauriat, books . . . .	30 00
Eastman's Express, expressage . .	8 40
Gibbons, Rosa, salary 9 mos. . . .	93 75
Iconographic Publishing Co., book .	5 75
Jennings, H. A., book. . . .	1 00
King, G. F. & Merrill, sundries . .	13 12
Library bureau, " . . . .	44 49
Meston, P. D., rebinding books . .	197 55
Melrose Journal, library slips . .	30 00
Macmillan & Co., book . . . .	5 86
Mass. Historical Society, book . .	6 00
Mackenzie, D., book . . . .	4 50
Norcross' Express, expressage . .	1 00
Paige, J. C., insurance . . . .	22 50
Putnam Sons, G. P., books . . . .	15 00
Roffe & Co., A. W., books . . . .	271 85
Tuckerman, S. C. . . . .	3 00
Ticknor & Co., . . . .	6 00

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*Amounts carried forward* . . . \$1,422 62 \$2,101 44

<i>Amounts brought forward</i>	.	.	\$1,422 62	\$2,101 44
Upham, H. W., binding books	.	.	\$12 00	
Upham, H. B., repairing door-spring	.		1 00	
Woodward, C. L., book	.	.	3 00	
Walker & Co. G. H., atlas	.	.	15 00	
Whittier, F. L., & W. E., book	.	.	2 50	
Wilder & Co. L. B., printing bulletins			66 50	
Worthen, C. M., salary librarian 1 year			531 25	\$2,053 87
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Balance,	.	.	.	\$47 57

## SALARIES TOWN OFFICERS.

Balance,	.	.	.	.	.	.	\$306 81
March appropriation	.	.	.	.	.	.	4,000 00
<hr/>							\$4,306 81

## EXPENDED.

Leonard, H. A., Norton, J. R., Pratt, D., Board of Assessors 1891	.	.	\$750 00
Norton, J. R., service 1890	.	.	150 00
Harris, G. N., Auditor 1890-91	.	.	33 34
Nickerson, W. I., " "	.	.	33 33
Orcutt, F. E., " "	.	.	33 33
Gould, E. C., Auditor, 1891	.	.	300 00
Jack, E. S., M. D., Board of Health	.	.	50 00
Burke, G. W., " "	.	.	50 00
Washburn, F. L., " "	.	.	50 00
Larrabee, J., Town Clerk	.	.	300 00
Lane, A., Collector 1890	.	.	240 30
Lane, A., Collector 1891	.	.	493 37

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*Amounts carried forward,* . . . \$2,483 67 \$4,306 81

<i>Amounts brought forward,</i>	.	.	\$2,483 67	\$4,306 81
Barron, H., forest fire ward 1890	.	.	15 00	
Locke, C., " " " "	.	.	15 00	
Marshall, J., " " " "	.	.	15 00	
Pratt, D., " " " "	.	.	15 00	
Worthen, C. C., " " " "	.	.	15 00	
Pratt, D., inspector of buildings, 1890			100 00	
Fields, H. G., Chairman, Overseer of Poor, 1891	.	.	200 00	
Bale, Mrs. M B., Overseer of Poor, 1891	.	.	50 00	
Singer, Jr., J., Overseer of Poor, 1891			50 00	
Babb, W., Registrar of Voters, 1891			25 00	
Hocking, A., " " " "	.	.	25 00	
Kirmes, V. C., " " " "	.	.	25 00	
Larrabee, J., " " " "	.	.	25 00	
Deering, J. P., Selectman	.	.	200 00	
Gould, L. S., " "	.	.	200 00	
Higgins, C. W., " "	.	.	200 00	
Newhall, G., Treasurer	.	.	500 00	4,158 67
Balance,	.	.		\$148 14
Amount of salaries unpaid	.	.	400 00	

## SUPPORT OF SCHOOLS.

Jan. 1. Unexpended balance, 1890 .	\$1,451 74	
Less amount overpaid contingent, 1890 . . . . .	68	1,451 06
Feb. 2. Commonwealth of Massachu- setts, school tax . . . . .		72 55
March 17. Appropriation . . . . .	\$34,000 00	
		<hr/>
		\$35,523 61

## EXPENDED.

*Teachers' Salaries.*

Alonzo G. Whitman, 10 months	\$2,000 00
Guy C. Channell. . . . .	80 00
A. A. Ballou, 10 months . . . .	800 00
Hattie G. Ricker, 10 " . . . .	650 00
Clarimond Mansfield, 2 " . . . .	125 00
" " 4 " . . . .	260 00
Oliver B. Roberts, 4 " . . . .	260 00
Harriet C. Fairbanks, 10 " . . . .	1,000 00
Effie G. Sweetser, 6 " . . . .	330 00
" " " 4 " . . . .	280 00
Lucy W. Bisbee, 10 " . . . .	600 00
Alice M. Swett, 6 " . . . .	360 00
" " " 4 " . . . .	260 00
Lydia Mendum, 10 " . . . .	700 00
Susan D. Melcher, 10 " . . . .	550 00
Helen J. Barrett, 6 " . . . .	330 00
" " " 4 " . . . .	240 00
Mary J. George, 6 " . . . .	300 00
" " " 4 " . . . .	210 00

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*Amounts carried forward, . . . \$9,335 00 \$35,523 61*

<i>Amounts brought forward,</i>		.	.	\$9,335 00	\$35,523 61
Janet Young,	6 months	.	.	300 00	
" "	4 "	.	.	210 00	
Belle Mitchell,	6 "	.	.	300 00	
" "	4 "	.	.	210 00	
Lillie J. Davis,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
Alma J. Guptill,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
Alice H. Long,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
Gertrude Smith,	6 "	.	.	270 00	
Hattie M. Cutter,	4 "	.	.	180 00	
Isabella L. Atwood,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
Emma A. Weeks,	6 "	.	.	270 00	
" " "	4 "	.	.	190 00	
Lucy F. Dermot,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
Isabel Chapin,	6 "	.	.	300 00	
" "	4 "	.	.	210 00	
Amelia F. Trowbridge,	10 "	.	.	450 00	
Mary E. Nye,	6 "	.	.	270 00	
" " "	4 "	.	.	190 00	
Della H. Crosby,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
Emma L. Randlett,	6 "	.	.	300 00	
" " "	1 "	.	.	52 50	
Hattie Field,	3 "	.	.	127 50	
Annie M. Ransom,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
Annie B. Chadbourne,	6 "	.	.	300 00	
" " "	4 "	.	.	210 00	
<i>Amount carried forward,</i>		.	.	\$17,245 00	\$35,523 61

<i>Amounts brought forward,</i>	.	\$17,245 00	\$35,523 61
Mary A. Plummer,	6 months	\$270 00	
" " "	4 "	190 00	
Etta J. Call,	6 "	270 00	
" " "	4 "	190 00	
Florence M. Ellis,	6 "	300 00	
" " "	4 "	210 00	
Florence M. Perry,	6 "	270 00	
" " "	4 "	190 00	
Nellie Dempsey,	10 "	450 00	
Henry Benson (music)	6 "	240 00	
Grant Drake	4 "	160 00	
Elizabeth Creveling, (drawing)	6 "	210 00	
Willis S. Carter,	" 4 "	160 00	
Eva M. Crane,	4 "	180 00	
Annie G. Smith,	4 "	200 00	
A. Louis McCormick	3½ "	175 00	
Theodora Teague,	3½ "	175 00	
Esther M. Davis,	4 "	200 00	
Florence H. White,	4 "	160 00	
		<hr/>	
		\$21,445 00	

*Evening Schools.*

Guy C. Channell . . . . .	\$144 00
Della H. Crosby . . . . .	36 00
Annie M. Crane . . . . .	42 00
Emma A. Weeks . . . . .	36 00
Mary E. Nye . . . . .	36 00
Alice M. Swett . . . . .	18 00
W. J. Boyce . . . . .	48 00
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	\$360 00

*Amount carried forward,* . . . \$35,523 61



*Amount brought forward,* . . . \$35,523 61

*Fanitors' Salaries.*

W. J. Boyce,	12 months	.	\$500 00
Arthur Armington,	4¼ "	.	214 51
Geo. W. Boutwell,	5 "	.	166 70
Chas. H. Fuller,	12 "	.	235 00
Geo. H. Anderson,	12 "	.	235 49
Joseph Emerson,	12 "	.	100 00
Eri Upham,	12 "	.	86 67
John Davis,	9 "	.	45 00
Edward Molyneaux,	3 "	.	15 00
Wm. Boyd,	12 "	.	60 00
John Massey,	12 "	.	83 31
			<hr/>
			\$1,741 68

*School Superintendent.*

Guy C. Channell, 12 months . \$2,000 00

*Gymnastics.*

F. A. Halfenstine, instructor . . \$161 00

*Advertising and Printing.*

Dunton & Potter	.	.	.	.	\$25 00
Melrose Journal	.	.	.	.	90 60
					<hr/>
					\$115 60

*Amount brought forward,* . . . \$35,523 61

*Amount brought forward,* . . . \$35,523 61

*Fuel, Gas and Rent,*

Benson, S. E., coal and wood . . .	\$201 25
Goss, C. B. & F. H., coal and wood . .	412 18
Malden & Melrose Gas Light Co. . .	59 84
Eastman, M. F., Franklin hall, 12 mos.	420 00
Gilman, L. W., rent, storage of furni- ture, 3 months . . . . .	12 00

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\$1,105 27

*Miscellaneous Bills.*

American Express Co., expressage . .	\$6 65
Armington and Boyce, removing win- dows . . . . .	\$5 00
Austin, J. S., carriage hire . . . .	3 00
Bugbee & Barrett, sundries . . . .	21 25
Bartlett, G. W., carriage hire . . . .	62 00
Babb & Stephens, printing and sta- tionery . . . . .	64 30
Boyce, W. J., services . . . . .	112 59
Burrell & Swett, sundries . . . . .	27 60
Chandler, J. O., labor and stock . . .	3 65
Channell, G. C., sundry expenses . .	36 50
Dill, J. A., use of chairs, tables, etc. .	3 50
Drown, O. E., labor and stock . . . .	23 50
Eastman's Ex., expressage . . . . .	79 38
Gibson, J. H., door mat . . . . .	2 00
Gerry, W. E., sundries . . . . .	12 05
Hunnewill & Sons, J., labor . . . . .	6 00
Hadley, S. H., services . . . . .	8 00
Ireland, T., repairing clock . . . . .	10 00
Jordan & Christie, brushes, dusters, etc.	100 50

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*Amounts carried forward,* . . . \$587 47 \$35,523 61

<i>Amounts brought forward,</i>		\$587 47	\$35,523 61
Keating, W. E., carriage hire		50	
Lehman, J., tuning piano		3 50	
Manning Bros., cotton cloth and ribbons		9 71	
Melrose Orchestral Club, services		20 00	
McCullough, J. J., arm chairs		8 75	
Norcross' Express, expressage		12 00	
Philpot, R., removing ashes		22 50	
Philpot, R., cleaning cespools		39 00	
Police Dep't., use of telephone		2 50	
Quinn, D., labor and teams		178 31	
Richardson, H. C., watering street		4 00	
Stevens, W. C., copies of maps of streets		26 00	
Thompson, G. A., tuning pianos		5 00	
White, D. M., " " "		3 50	
Winchester Furniture Co., setting up desks		7 20	
		<hr/>	
		\$929 94	

*Repairs.*

Anderson, G. H., setting glass, stock and labor		\$8 55	
Armington, A. H., repairing desks and setting glass		5 00	
Burrell & Swett, sundries		7 65	
Barstow Stove Co., 2 furnaces		800 00	
Curry & Hebblethwaite, stock and labor		9 49	
Carter Bros., half cost of fence, Vinton street school		15 30	
Deering, J. P., lumber		38 34	
Dew, G. W., painting		279 08	
Dean, F. H., slating blackboards		206 85	
Fernald, W. A., gas fitting		29 93	
Franklin, A. B., stock and labor		241 86	
Gibson, J. H., setting glass		50	
Gibson, R. M., painting flag pole		2 00	
		<hr/>	

*Amounts carried forward,* . . \$1,644 55 \$35,523 61

<i>Amounts brought forward,</i>		\$1,644	55	\$35,523	61
Graydon, A. A., repairing chairs and desks		16	25		
Howes, J. C., stock and labor		241	05		
Hunnewill, J. W., stock and labor		53	24		
Lancaster & Son., J. J., stock and labor		408	16		
Lane Bros., stock and labor, plastering		37	70		
Leighton L. S., half expense of fence					
Grove street school		15	00		
Lynde, A. W., stock and labor		59	16		
McCullough, J. J., repairing desks and chairs		20	60		
Melrose, Town of, sidewalk department, concreting		61	76		
McKillican, R., repairing roofs		99	72		
Perry Bros., sundries		66	11		
Parker, A. W., painting		86	50		
Perham, F. E., labor		45	37		
Rendall, J., stock and labor		404	59		
Sargent, E. N., stock and labor		10	45		
Tarbell, E. R., " " "		87	85		
Trask, H. D., cleaning and repairing furnaces		112	45		
Upham, A. E., stock and labor		192	22		
Whitman, A. G., programme boards		4	75		
				\$3,667	48

*Supplies, Books, Stationery, etc.*

American Book Co., books		\$263	26		
Anderson, Jr., W. H., "		40	00		
Babb & Co., E. E., "		830	26		
Boston School Supply Co., "		27	25		
Butler & Co., E. H., "		17	28		
Baker & Co., W. H., "		1	00		
Capronie & Bro., P. P., clay		3	75		
Cutler Bros., chemicals		59	41		
Cross, H. M. & L. W., sundries		3	80		

*Amounts carried forward,* . . . \$1,246 01 \$35,523 61

<i>Amounts brought forward,</i>	.	.	\$1,246 01	\$35,523 61
Daniels, J. H., diplomas	.	.	51 25	
Ditson Co., Oliver, books	.	.	16 86	
Educational Supply Co., sundries	.	.	61 51	
Frost & Howes, pails, boxes, jars	.	.	15 10	
Garey & Co., P. A., clay	.	.	3 50	
Hammett, J. A., sundries	.	.	275 36	
Heath & Co., D. C., books	.	.	116 19	
Interstate Pub. Co., books	.	.	5 40	
King, G. F., & Merrill, sundries	.	.	413 19	
Larrabee, J., sponges and envelopes	.	.	6 40	
Leach, Shewell & Sanborn, books	.	.	18 30	
Lee & Shepard,	"	.	53 80	
Lewis, E. A., kindergarten	"	.	16 50	
Little, Brown & Co.,	"	.	2 25	
Lippincott Co., J. B.,	"	.	70 85	
Manning Bros., ribbons	.	.	4 13	
New York Mfg. Co., book	.	.	5 40	
Pulsifer, Jordan & Co., letter heads	.	.	184 80	
Perry, G. S., sundries	.	.	528 14	
Partridge & Co., H., wands	.	.	3 75	
Prang Educational Co., books	.	.	51 52	
Schoenhof, C.,	"	.	2 36	
Silver, Burdett & Co.,	"	.	441 47	
Sever, C. W.,	"	.	1 66	
Thompson, Brown & Co., blanks	.	.	42 50	
Thorp Mfg. Co.,	"	.	14 22	
University Pub. Co., books	.	.	18 00	
Ware & Co., Wm., Walton tables	.	.	3 84	
Whitall, Tutum & Co., chemicals	.	.	287 17	
Walker & Co., G. H., atlas	.	.	15 00	

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 \$3,977 45

*Amount carried forward,* . . . \$35,523 61

*Amounts brought forward,* . . . \$35,523 61

## RECAPITULATION.

Teachers' salaries.	. . . . .	\$21,445 00	
" " evening schools	. . . . .	360 00	
Janitors' " . . . . .	. . . . .	1,741 68	
Superintendent " . . . . .	. . . . .	2,000 00	
Instructor of gymnastics . . . . .	. . . . .	161 00	
Advertising and printing . . . . .	. . . . .	115 60	
Fuel, gas and rent . . . . .	. . . . .	1,105 27	
Miscellaneous bills . . . . .	. . . . .	929 94	
Repairs . . . . .	. . . . .	3,667 48	
Supplies . . . . .	. . . . .	3,977 45	35,503 42
			<hr/>
Balance, . . . . .	. . . . .		\$20 19

## SIDEWALKS, CONCRETE.

Unexpended balance, 1890 . . . . .		\$611 06
Appropriation . . . . .		2,500 00
Cash received for concrete laid in 1889	\$49 47	
“ “ “ “ “ “ 1890	89 15	
“ “ “ “ “ “ 1891	1,015 79	
“ “ “ tar sold “	294 96	1,449 37
		<hr/> \$4,560 43

## EXPENDED.

Chapman Soden, pitch . . . . .	\$50 20
Elliott, Wm. P., 1000 loads of sand . . . . .	100 00
Goss, C. B. & F. H., 5½ cords pine . . . . .	33 00
Malden & Melrose Gas Light Co., tar . . . . .	1,191 00
Philpot, Robert, 2 bbls tar . . . . .	6 00
“ “ 38½ loads sand . . . . .	38 50
Dew, Geo. W., 5 tar barrels . . . . .	3 75
Ellis & Co., G. B., 10 tar barrels . . . . .	5 00
Greenleaf & Co., G., sand screen . . . . .	6 50
Hull & Co., C. E., 90 tar barrels . . . . .	67 50
Philpot Robert, 65 “ “ . . . . .	32 50
Stevens, W. C., surveying . . . . .	100 00

*Labor and Teams.*

Men, 39¾ days at \$2.50,	\$99 38	
“ 665¼ “ “ 2,	1,330 50	
“ 145½ “ “ 1.75,	254 17	
Teams 299¾ “ “ 1.75,	524 56	2,208 61
Ellis & Co., G. B., 335.1 yds.	50	167 55
“ “ “ patching		5 00
		<hr/>

*Amounts carried forward,* . . . \$4,015 11 \$4,560 43



<i>Amounts brought forward,</i>		\$4,015 11	\$4,560 43
Hoffman, C. L.	625.9 yds. @ .50	321 45	
"	122.2 " repairing	61 10	
"	18.6 top dressing	4 65	
1890. Philpot, R.,	448.5	35	156 98
1891. " "	35	50	17 50
"	5.35 repairing	60	3 33
"	57.33 top dressing	20	11 47
"	93.7 " "	30	28 11
Abbott, G., 1/2 expenses,	66.55 laid in		
1888		11	31
Cochrane, M. G., 1/2 expenses,	111.9		
laid in 1890		19	58
McGilley, John, 1/2 expenses,	48.6 laid		
in 1890		8	50
Methodist church, 1/2 expenses,	175.		
laid in 1890		26	25
Ellison, C. W., postage stamps		2	00
		<hr/>	
		\$4,687 34	
Less amount transferred to highways			
for crossings and gutters		400 64	4,286 70
		<hr/>	
Balance,			\$273 73

Assessments are due from abutters for one half expense of concrete :

For the year 1889 to the amount of	\$35 79
" " " 1890 " " " "	195 67
" " " 1891 " " " "	552 15
<hr/>	
	\$783 52

When paid will be placed to the credit of the sidewalk department.

## SOLDIERS' LOTS, WYOMING CEMETERY.

Balance, . . . . .	\$84 73
March, appropriation . . . . .	100 00
	<hr/>
Balance (no expenditures) . . . . .	\$184 73

## SOLDIERS' RELIEF.

Balance, . . . . .	\$137 65
March, appropriation . . . . .	500 00
	<hr/>
	\$637 65

## EXPENDED.

M. P. Mitchell, cash allowance . . . . .	\$96 50	
Benson, S. E., coal and wood . . . . .	16 68	
Goss, C. B. & F. H., " " " . . . . .	1 65	
Barker, G. U., groceries and provisions . . . . .	20 00	
Eldridge, S. O., " " " . . . . .	10 00	
Frost & Hawes, " " " . . . . .	5 00	
Holbrook & Norton, " " " . . . . .	5 00	
Hinckley, L. F., " " " . . . . .	7 00	
Wells, W. H., " " " . . . . .	75 00	
Clark, J. S., M. D., medical attendance . . . . .	10 00	
Morse, F. H., M. D., " " . . . . .	16 00	
Ames, Benj., 6 months rent . . . . .	72 00	
Blackinton, M. D., 6 " " . . . . .	72 00	
Noyes, Mrs. A. M., 47 weeks " . . . . .	142 00	\$548 83
	<hr/>	
Balance, . . . . .		\$82 82

## SPOT POND BROOK.

July 7, Treasurer authorized to borrow . . . . .	\$3,100 00
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## EXPENDED.

Whittier, E. L., as per contract . . . . .	3,100 00
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## SPOT POND IMPROVEMENT.

(Malden, Medford and Melrose Water Boards.)

Treasurer authorized to borrow . . . . .	\$20,000 00
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## EXPENDED.

City of Malden, $\frac{1}{3}$ expense, 1891 . . . . .	\$440 54
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Balance, . . . . .	\$19,559 46
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## STATE AID.

Received from State, amount paid in 1890 . . . . .	\$1,018 00
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*Paid disabled soldiers and dependent relatives during year 1891.*

(Refunded by the State Dec., 1892.)

Baldwin, Mary C. . . . .	\$48 00
Babcock, George W . . . . .	48 00
Barrett, Sarah . . . . .	48 00
Boyd, Wm. . . . .	36 00
Bryant, Lydia J. . . . .	48 00
Burnham, Paschal E. . . . .	96 00
Chandler, Abby A. . . . .	48 00
Colson, Maurice G. . . . .	48 00
Cummings, Catherine . . . . .	20 00
Dean, Sarah A. . . . .	44 00
Dolan, Bridget . . . . .	16 00
Double, Elizabeth A. . . . .	40 00
Drake, Alvan . . . . .	60 00
Emerson, James G. . . . .	48 00
French, Rebecca H. . . . .	48 00
Gibbs, Benj. F. . . . .	48 00
Grant, Rosanna . . . . .	12 00

<i>Amount carried forward,</i> . . . . .	\$744 00
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<i>Amount brought forward,</i>	.	.	\$744 00
Grover, George W.	.	.	16 00
Guild, John H.	.	.	24 00
Heaton, Anastasia	.	.	4 00
Hollis, Melissa	.	.	8 00
Hood, Wendell P.	.	.	48 00
Irwin, William F.	.	.	72 00
Knowlton, Anna T.	.	.	8 00
McMahan, Philip	.	.	\$4 00
Mitchell, Moses P.	.	.	48 00
Penney, Daniel D.	.	.	12 00
Poole, Helen E.	.	.	48 00
Rice, Mary J.	.	.	40 00
Rogers, George A.	.	.	84 00
Rowell, Stephen P.	.	.	36 00
Rowell, Hannah	.	.	36 00
Story, Hannah	.	.	48 00
Swett, Cyrus E.	.	.	48 00
Terry, Mary.	.	.	32 00
Tucker, Helen E.	.	.	48 00
Weeks, Luzon	.	.	24 00
York, Benj. F.	.	.	20 00
York, Josiah R.	.	.	24 00
York, William B.	.	.	48 00
Young, Mary E.	.	.	48 00

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\$1,572 00

## STEAM ROAD ROLLER.

Treasurer authorized to take from surplus fund . . . . .	\$648 00
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## EXPENDED.

Post Engineering Co., 1 steam road roller . . . . .	\$600 00	
Boston & Maine railroad, freight on steam road roller . . . . .	48 00	648 00

## STONE CRUSHER.

Balance, 1890, . . . . .	\$1,263 05
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## EXPENDED.

Wellington, J. A., cash on account . .	\$1,230 50	
Balance transferred to Highway acc't . .	32 55	1,263 05

## STREET LIGHTS.

Balance, 1890 . . . . .	\$7 60
Appropriation . . . . .	6,220 00
	<hr/>
	\$6,227 60

## EXPENDED.

Eastman's express . . . . .	\$2 65	
Howes, J. C., repairing lanterns . . . .	29 68	
Malden Electric Light Co., 28 arc lights, 13 mos. . . . .	\$3,033 42	
40 incandescent lights, 6 mos., 80 incandescent lights, 7 mos. . . . .	1,200 00	4,233 45
Wheeler Reflector Co., lighting and care of 168 to 176 lights, 11 mos. . .	1,837 08	
Wheeler Reflector Co., 1 lamp post and lanterns . . . . .	24 85	6,127 68
Balance, . . . . .		<hr/>
		\$99 92

## STREET SIGNS.

Appropriation . . . . .	\$150 00
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## EXPENDED.

McLaughlin, F. M., services setting guide posts and railings . . .	\$8 75	
Parker, A. W., 70 signs . . .	87 50	96 25
		<hr/>
Balance, . . . . .		\$53 75

## TAXES.

County Treasurer, tax of 1891 . . .	\$4,733 83	
State Treasurer, " " " . . .	4,410 00	9,143 83

## TOOL SHED.

## EXPENDED.

Benson & Co., S. E., sleepers . . .	\$3 00
Johnson, T. B., contract . . .	296 00
	<hr/>
	\$299 00

Treasurer authorized to borrow \$300.00.

## TOWN HALL.

Balance, 1890 . . . . .	\$875 06
Treasurer authorized to borrow . . . . .	1,000 00

## RECEIPTS.

Bailey, Wm., cash for vane . . . . .	\$60 00	
Burnett, A. J., use of hall	250 00	
Baptist Society, " " "	40 00	
Catholic Society, " " "	81 00	
Daughters of Rebekah, " " "	40 00	
Grant, U. S. Post 4, G. A. R. " " "	50 00	
Hawkes family, " " "	15 00	
Melrose Athletic Club, " " "	15 00	
Melrose Cadet Band, " " "	80 00	
Melrose Choral Society " " "	21 00	
Melrose Co-operative Bank " " "	12 00	
Melrose Dem. Town Com. " " "	40 00	
Melrose firemen, " " "	15 00	
Melrose Lyceum, 1891-92 " " "	240 00	
Melrose Prohibition Com. " " "	15 00	
Melrose Republican Club " " "	40 00	
Melrose Savings Bank, rent	150 00	
Pemberton, A.L., " " "	15 00	
Swain's Pond Mission, " " "	15 00	
Unitarian Society, " " "	50 00	
Universalist Society, " " "	50 00	
Wide Awakes, " " "	10 00	
Wilkins, Mrs., " " "	25 00	1,329 00
<i>Amount carried forward, . . . . .</i>		<u>\$3,204 06</u>



*Amount brought forward,* . . . \$3,204 06

## EXPENDED.

*Fuel and Lights.*

Benson, S. E., coal . . . . .	\$57 50
Goss, C. B. & F. H., coal . . . . .	115 00
Malden & Melrose Gas Light Co., gas	1,037 34
	<hr/>
	\$1,209 84

*Repairs.*

Boston and Maine railroad, freight . . . . .	42
Buck & Co., stock and labor . . . . .	21 25
Continental Grate Co., grate for boiler . . . . .	61 00
Dew, Geo. W., contract painting . . . . .	300 00
Dew, Geo. W., setting glass, etc. . . . .	79 75
Deering, J. P., lumber . . . . .	21 68
Drown, O. E., labor on belfry . . . . .	17 50
Edwards, J., repairing hall door . . . . .	2 00
Emery & Co., W., doors . . . . .	28 85
Hunnewill, J. W., labor on hall . . . . .	49 88
Howes, J. C., labor and stock, plumbing etc.	588 67
Howard, E. Watch & Clock Co., clock hammer . . . . .	14 43
Johnson, T. B., labor and stock . . . . .	54 00
Lancaster & Son, J. J., labor and stock . . . . .	26 50
Lynde, A. W., labor and stock . . . . .	46 00
Margeson, J. B., repairing front doors . . . . .	1 00
Melrose Journal, advertising . . . . .	2 00
McCoubry, Thos., labor and stock . . . . .	3 10
McQuestion & Co. G., lumber . . . . .	7 18
Perry Bros., hardware . . . . .	17 82
Thomson-Houston Elec. Co., outside light . . . . .	15 00
Upham, H. B., labor and stock repairing settees . . . . .	17 98
Woodward, D. R., labor . . . . .	9 75
	<hr/>
	\$1,366 76

*Amount carried forward,* . . . \$3,204 06

*Amount brought forward,* . . . \$3,204 06

*Miscellaneous Bills.*

Bugbee & Barrett, sundries . . .	\$2 27	
Broad Gauge Iron Works, vane (paid by Mr. Bailey) . . .	60 00	
Dunton & Potter, printing . . .	3 50	
Drown, O. E., janitor 1 year . . .	300 00	
Eastman's Express, teaming and mov- ing piano . . . . .	12 35	
Edwards, J. W., sharpening lawn mower	1 50	
Jordan & Christie, brushes . . .	10 00	
	<hr/>	\$389 62

RECAPITULATION.

Fuel and lights . . . . .	\$1,209 84	
Repairs . . . . .	1,366 76	
Miscellaneous bills . . . . .	389 62	\$2,966 22
	<hr/>	
Balance, . . . . .		\$237 84

## WATER FUND.

## CR.

Jan. 1891, to the credit of account	\$1,860 84
Received from E. H. Goss, water registrar for water rates collected 1891	29,752 50
Received for 8 water bonds, 43 to 50	8,000 00
Received as premium on bonds . . .	225 00
Received as accrued interest . . .	86 00
	<hr/>
	\$39,924 34

## DR.

Water L. S. Fund Commissioners,	
surplus 1890 . . . . .	\$5,002 76
Interest coupon on water bonds . . .	8,360 00
Bills on account construction, etc.	25,060 06
	<hr/>
	\$38,422 82
To the credit of account . . . . .	1,501 52
	<hr/>
	\$39,924 34

## WYOMING CEMETERY.

## RECEIPTS.

Sale of lots . . . . .	\$1,511 00	
Care of lots . . . . .	646 50	
Labor . . . . .	129 03	
Interments and opening graves . . . . .	158 50	
Foundations . . . . .	28 50	
Highway department for stone . . . . .	40 00	
Rent of Pratt farm . . . . .	186 00	
Interest on trust funds 1891 . . . . .	67 00	\$2,766 53

## EXPENDED.

Benson & Co. S. E., cement . . . . .	1 50	
Bugbee & Barrett, sundries . . . . .	2 30	
Burrell & Swett, shovels . . . . .	7 55	
Casey, C., plants . . . . .	19 00	
Dunton & Potter, cloth posters and circulars . . . . .	7 50	
Goss, C. B. & F. H., cement and lime . . . . .	29 10	
Gould, E. C., postage stamps . . . . .	4 50	
King, G. F. & Merrill, blank books . . . . .	3 50	
Library Bureau, lot books and cards . . . . .	18 80	
Larrabee, J., salary as committee . . . . .	25 00	
Marshall, T., dressing . . . . .	3 00	
McDonald, D., 150.6 ft. granite capping . . . . .	78 75	
McCoubry, Thos., sharpening tools . . . . .	19 55	
Newhall, G., salary as committee . . . . .	25 00	
Norcross' Express, teaming . . . . .	11 50	
Perry Bros., tools, etc. . . . .	6 37	
Stevens, W. C., staking out lots . . . . .	7 00	

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*Amounts carried forward,* . . . \$269 92 \$2,766 53

<i>Amounts brounht forward</i>	.	\$269 92	\$2,766 53.
Smith Bros., sharpening mowers,	.	3 00	
Water Dept., service pipe, etc.	.	16 35	
Woodward, D. K., labor and stock	.	1 00	
Deering, J. P., shingles for Pratt house		48 04	
Upham, A. E., labor and stock for Pratt house	.	61 89	

*Labor and Teams.*

Marshall, T., supt. 5 months	\$250 00		
Men, 104¼ days @ \$2 00	208 50		
“ 1,112¼ “ “ 1 76	1,957 56		
“ 20½ “ “ 1 75	35 88		
Team 86½ “ “ 1 75	151 39		
“ 10¼ “ “ 1.50	15 37	2,618 70	
			<hr/>
			\$3,018 90

Expenditures exceed receipts \$252 37

## REPORT OF TOWN TREASURER.

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Cash in treasury, Jan. 24, 1891	\$1,754 72
Total receipts for the year	235,284 79
	<hr/>
	\$237,039 51
Total disbursements	233,490 12
	<hr/>
Cash in treasury, Jan. 25, 1892	\$3,549 39

### CEMETERY TRUST FUNDS.

1885.	Estate of Sally Upham	\$200 00
1886.	S. B. Cochran	200 00
1887.	Estate of Wm. H. Jones	100 00
1888.	Estate of Mrs. Lynthia L. Burgess	100 00
1888.	C. O. and Mrs. Thomas Robinson	100 00
1889.	Mrs. Caroline Curtis	100 00
1889.	C. E. Daniels, Tr. Winchester Home	300 00
1889.	Estate of J. Vincent Smith	200 00
1889.	Estate of Peter Edgerly	100 00
1890.	Mrs. Sarah Whowell	50 00
1890.	Wm. A. Fuller	150 00
1891.	Mrs. J. P. Beckett	100 00
1891.	Louis Earl	100 00
		<hr/>
		\$1,800 00

## STATEMENT OF THE TOWN DEBT.

## WATER BONDS.

Melrose Water Fund due Oct. 1, 1892 . . .	\$50,000 00
“ “ Loan, high service, due Nov. 1,	
1905 . . . . .	37,000 00
Melrose Water Fund, series of 1887, due May	
1, 1907 . . . . .	50,000 00
Melrose Water Fund, series of 1890, due 1896-97-	
98-99, 1900, \$10,000 each year . . .	50,000 00
	<hr/>
	\$187,000 00

## TOWN HALL BONDS.

Melrose Town Hall, due Oct. 1, 1892 . . .	\$65,000 00
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## PERMANENT LOANS.

*Loans on account of Building and Remodelling School Building as per vote May 26, 1890.*

1890.

Barnard & Stanwood, due Aug.

30, 1895, @ 4 per cent. . . \$10,000 00

Melrose Savings Bank, due Nov.

28, 1893, @ 4 per cent. . . 10,000 00

Melrose Savings Bank, due Jan.

7, 1893, @ 4 per cent. . . 5,000 00

1891.

Lizzie C. Haskell, due July 9, 1894,

@ 4 per cent. . . . . 5,000 00

Provident Inst. Savings, due Dec.

8, 1898, @ 4 per cent. . . 10,000 00

Melrose Savings Bank, due Jan.

6, 1895, @ 4 per cent. . . 5,000 00 \$45,000 00

*Amount carried forward, . . . \$297,000 00*



<i>Amount brought forward,</i>		\$297,000 00
<i>Loans on account of Extension of Grove Street School Building as per vote June 22, 1891.</i>		
Provident Inst. Savings, due Dec. 8, 1900		\$11,000 00

## TEMPORARY LOANS.

Melrose Savings Bank, dated Dec. 29, 1890, @ 4 per cent.	\$5,000 00	
Melrose Savings Bank, dated Mar. 30, 1891, @ 4 per cent.	5,000 00	
Melrose Savings Bank, dated April 9, 1891, @ 4 per cent..	5,000 00	
Melrose Savings Bank, dated May 2, 1891, @ 4 per cent. .	5,000 00	
Melrose Savings Bank, dated July 23, 1891, @ 4 per cent. .	13,000 00	33,000 00
		<hr/>
		\$341,000 00

## AVAILABLE ASSETS.

Due from State, State aid 1891	\$1,572 00	
Due from State, Military aid 1891	259, 50	\$1,831 50
Uncollected taxes :		
1885 . . . . .	\$673 72	
1886 . . . . .	706 71	
1887 . . . . .	804 99	
1888 . . . . .	880 77	
1889 . . . . .	1,537 72	
1890 . . . . .	925 15	
1891 . . . . .	44,550 95	\$50,080 01
Water Loan Sinking Fund . . . . .		5,075 54
Cash on hand . . . . .		3,549 39
		<hr/>
		\$60,536 44
Net debt more than assets available . . . . .		\$280,463 56
		<hr/>
		\$341,000 00

Respectfully submitted,

GEORGE NEWHALL,

Melrose, Jan. 25, 1892,

Treasurer.

## GEORGE NEWHALL, TREASURER

*In account with the TOWN OF MELROSE.*

DR.

Jan. 24, 1891.	Cash in treasury	.	.	.	\$1,754 72
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## RECEIPTS.

Parker Merrill, collector of taxes,			
1889 . . . . .	\$81 39		
Addison Lane, collected taxes of			
1889 . . . . .	86 65		
Addison Lane, collector of taxes,			
1890 . . . . .	34,468 72		
Addison Lane, collector of taxes,			
1891 . . . . .	70,497 29	105,134 05	
Water rates . . . . .	29,752 50		
8 Water bonds sold . . . . .	8,000 00		
Premium and interest on bonds . . . . .	311 00	38,063 50	
Cemetery trust funds . . . . .		200 00	
Dog tax . . . . .		1,079 65	
Temporary loans, notes . . . . .		46,000 00	
Permanent " " . . . . .		31,000 00	
Commonwealth of Mass., School			
Fund . . . . .	72 25		
Commonwealth of Mass., Military			
Aid . . . . .	308 50		
Commonwealth of Mass., State			
Aid . . . . .	1,018 00		
Commonwealth of Mass., Bank			
and Corporation Tax . . . . .	4,865 87		
Commonwealth of Mass., burial			
of soldiers . . . . .	17 50	6,282 42	
<i>Amount carried forward,</i>			\$229,514 34

<i>Amounts brought forward,</i>					\$229,514 34
From various sources on account of					
Contingent	.	.	.	.	188 00
Poor,	.	.	.	.	620 03
Wyoming Cemetery	.	.	.	.	2,766 53
Highways	.	.	.	.	669 73
Police	.	.	.	.	386 28
Town Hall	.	.	.	.	1,329 00
Sidewalks,	.	.	.	.	1,449 37
Interest	.	.	.	.	116 23
					7,525 17
					<hr/>
					\$237,039 51

CR.

*Paid Bills, per Town Clerk's Warrants.*

Band stand	.	.	.	.	\$100 00
Contingent	.	.	.	.	2,740 71
Electric Light Committee	.	.	.	.	130 00
Ell pond brook	.	.	.	.	4,048 42
Fire alarm extension	.	.	.	.	643 25
Fire department	.	.	.	.	4,250 02
Grove street school building extension	.	.	.	.	7,098 45
Health department	.	.	.	.	781 65
Highways	.	.	.	.	16,850 63
Insurance	.	.	.	.	682 25
Melrose Common	.	.	.	.	54 00
Memorial day	.	.	.	.	200 00
Military aid	.	.	.	.	519 00
New school building	.	.	.	.	20,011 31
Numbering buildings	.	.	.	.	40 05
Police department	.	.	.	.	5,071 64
Poor	"	.	.	.	7,934 71

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*Amount carried forward,* . \$71,156 09

<i>Amounts brought forward,</i>	\$71,156	09	
Public Library . . . . .	2,053	87	
Salaries of town officers . . . . .	4,158	67	
School department . . . . .	35,503	42	
Sidewalks . . . . .	4,286	70	
Soldiers' relief . . . . .	548	83	
Spot pond brook . . . . .	3,100	00	
Spot pond improvement . . . . .	440	54	
State aid . . . . .	1,572	00	
Steam road roller . . . . .	648	00	
Stone crusher . . . . .	1,230	50	
Street lights . . . . .	6,127	68	
Street signs . . . . .	96	25	
Tool shed . . . . .	299	00	
Town Hall . . . . .	2,966	22	
Water Fund . . . . .	33,420	06	
Wyoming cemetery . . . . .	3,018	90	\$170,626 73
Interest on bonds and notes . . . . .	6,716	80	
County tax . . . . .	4,733	83	
State tax . . . . .	4,410	00	
Commonwealth of Mass., permanent loan . . . . .	14,000	00	
Temporary loan . . . . .	28,000	00	
Water Loan Sinking Fund Commis- sioners' surplus of 1890 . . . . .	5,002	76	\$62,863 39
			<hr/>
			\$233,490 12
Jan. 25, 1892, cash in treasury			3,549 39
			<hr/>
			\$237,039 51

## GEORGE NEWHALL,

*In account with* WATER LOAN SINKING FUND COMMISSIONERS.

## DR.

Cash on hand . . . . .	\$226 09
Received from town of Melrose, surplus 1890 . . . . .	5,002 76
Cash received as interest on bonds	200 00
Dividend on deposit in Melrose Savings Bank . . . . .	5 02

## CR.

By paid Boston Safe Deposit and Trust Co., box rent to Feb. 12, 1892 . . . . .	\$10 00
By paid for 5 Melrose Water bonds, issue of '87 (Nos. 43-47)	5,000 00
Premiums on above . . . . .	225 00
Accrued interest . . . . .	73 33
By paid Geo. Newhall, services as Treasurer for one year ending June 1, '91 . . . . .	50 00
Balance on hand, . . . . .	75 54
	<hr/>
	\$5,433 87
	<hr/>
	\$5,433 87

# ASSESSORS' REPORT

FOR YEAR 1891.

No. of inhabitants . . . . .	8,827
“ “ dwelling houses . . . . .	2,032
“ “ horses . . . . .	519
“ “ cows . . . . .	312
“ “ dogs . . . . .	556
“ “ swine . . . . .	27

Tax rate \$14.20.

Valuation of real estate, residents . . . . .	\$6,009,575 00
“ “ “ “ non residents . . . . .	1,362,450 00
“ “ personal estate, residents . . . . .	277,165 00
“ “ “ “ non-residents . . . . .	128,525 00

Total . . . . .	<u>\$7,777,715 00</u>
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Number of males assessed . . . . .	2,412
“ “ females “ . . . . .	25

Amount committed to collector . . . . .	\$114,984 74
Additional “ “ “ . . . . .	71 60
Re-assessed , . . . .	84 49

\$115,140 83

Number of resident persons paying a tax on property . . . . .	1,460
Number of resident firms paying a tax on property . . . . .	42
Number of persons paying a tax on polls only . . . . .	964
Number of non residents paying a tax on property . . . . .	338
Number of non resident firms and corpor- ations paying a tax on property . . . . .	23

2,827

## ABATEMENTS ON TAX OF 1891.

S. C. Harvey	\$7 10	Mrs. C. A. Swett, reassessed	39 76
Esther Morcomb	7 10	James H. Comer	5 00
Mrs. C. W. Clinkard	7 10	B. Upham, reassessed	12 78
Mrs. Ella Powder	7 10	D. Bryant, reassessed	11 36
Mrs. Mary Mitchell	7 10	Mrs. Mary D. Ellis	7 10
Miss Joan Stackpole	7 10	Mrs. Emma Wasdell	7 10
Mrs. K. McLaughlin	7 10	Mrs. Mary H. Andrews	5 50
Mrs. Jessie M. Loring	7 10	Abner M. Nelson	2 13
Mrs. Mary A. Finn	7 10	Annie Manning	6 74
Thomas D. Lockwood	2 48	Asahel Putnam	50 76
Chas. L. Sprague	3 90	Wm. Bogle	30 00
Mrs. H. C. Goodwin, reass'd	23 43	D. D. Stratton	10 65
G. K. R. Smith, reassessed	4 97	C. A. Eastman	5 32
L. E. & J. R. Wheeler	16 30		
Mrs. A. Breach	1 42		
			<u>\$310 60</u>

## ABATEMENTS ON TAX OF 1890 IN 1891.

Locadia Critchett	\$6 85	Mrs. C. F. Trowbridge	19 53
Mrs. Young	4 11	Sarah S. Armington	6 85
Est. J. Grady	6 50	Susan M. Parker	25 00
C. B. Baldwin	24 16	Est. James Cutter	6 85
Annie Manning	5 82	Mrs. Daniel Finnegan	7 19
Mrs. C. Ellms	6 85		
Mrs. Higgins	6 85		
Mrs. A. P. Perkins	11 85		<u>\$138 41</u>

HENRY A. LEONARD,  
JOHN R. NORTON,  
DEXTER PRATT,

*Assessors of 1891.*



# COLLECTOR'S REPORT.

## TAXES OF 1889.

Collected on taxes . . . . .	\$78 92
Collected on interest . . . . .	7 73
	<hr/>
	\$86 65
Amount paid treasurer . . . . .	\$86 65

## TAXES OF 1890.

Amount uncollected Jan. 1, 1891 . . . . .	\$34,391 18
Amount abated . . . . .	254 97

	<hr/>
	\$34,136 21
Amount of interest . . . . .	1,257 66

	<hr/>
	\$35,393 87
Amount collected and paid to treasurer . . . . .	34,468 72

Amount uncollected . . . . .	\$925 15
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## TAXES OF 1891.

Amount of warrant . . . . .	\$115,140 83
Amount abated . . . . .	240 99

	<hr/>
	\$114,899 84
Amount of interest . . . . .	148 40

	<hr/>
	\$115,048 24
Amount collected and paid to treasurer . . . . .	70,497 29

Uncollected . . . . .	\$44,550 95
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ADDISON LANE,  
Collector.

## REPORT OF OVERSEERS OF POOR.

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Eighty persons have received more or less aid within the year. Of this number fully supported, twenty-nine. Partially supported, fifty-one. Twenty-four persons have been aided who have their settlements elsewhere, or chargeable to the state, for whom we expect to be reimbursed, according to Provisions of Statutes. There are thirteen insane persons in the state institutions, belonging to the town, who are cared for at a cost of \$3.25 a week each. Four persons have died within the year. Our poor are cared for as comfortably as possible with our facilities, we having no almshouse, or infirmary for sick, are obliged to maintain several rents for families. Our single poor are boarded in private, and the whole department, we think, is being regulated with due regard to a proper economy. The Auditor's report of expense of the department may be found elsewhere.

HENRY G. FIELDS,

JOHN SINGER, JR.,

MARTHA D. BALE,

*Overseers of the Poor.*

# Report of Inspector of Buildings.

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*To the Honorable Board of Selectmen, Gentlemen:*

I herewith present my third annual report. During the year 225 applications for permits to build have been received, (some have been for double houses,) all of which have been granted. During the construction of the buildings, I have made personal examinations, and required that the statute laws and by-laws of the town should be observed.

Complaints were made to me concerning the condition of Burrell & Swett's new block, a thorough examination of the same was made by the State Inspector and myself, we recommended certain alterations which were made and the building completed to our satisfaction.

In accordance with your order I examined the new Main street school house and found the same to have been built in a strong and workmanlike manner.

It would be of great assistance to me if the builders and owners would comply with the by-laws and procure their permits before they commence to build and not require me to travel all over the town to find them.

I have the following recommendations to make: That the builders be more particular in putting in fire stops to their buildings, to prevent fire from going from the cellar to the attic. I also call their attention to the following By-Law:

Every building or structure hereafter built in the town shall have foundations resting upon the solid ground

or upon concrete piles or upon other durable structure. The foundation walls shall be built of stone extending through sufficiently to bind the walls inside and out. All underpinning above grade, whether of brick or stone shall be laid in one-half cement mortar.

DEXTER PRATT,  
Inspector of buildings.

## POLICE DEPARTMENT.

*To the Honorable Board of Selectmen :*

I submit to you my annual report of work done by the police department for the year ending Dec. 31, 1891.

During the past year the following amount has been collected from the First District Court of Eastern Middlesex and turned over to the town Treasurer.

From 1st district court . . . . .	\$353 78
From County Treasurer . . . . .	30 00
From milk licenses . . . . .	30 00
From peddlers licenses . . . . .	14 00
	<hr/>
	\$427 78

### NATURE OF COMPLAINTS AND CASES TAKEN INTO COURT.

Assault and battery . . . . .	11
Assault of officer . . . . .	2
Adultery . . . . .	2
Attempt to escape from lock-up . . . . .	1
Attempt to break and enter . . . . .	1
Breaking and entering . . . . .	1
Breaking town by-law . . . . .	3
Bastardy . . . . .	4
Board of Health rules . . . . .	2
Cruelty to animals . . . . .	3
Contempt of court . . . . .	1

Drunks . . . . .	73
"    2nd . . . . .	3
"    3rd . . . . .	2
Disturbing the peace . . . . .	16
Default warrant . . . . .	1
Dog fighting . . . . .	5
Keeping unlicensed dogs . . . . .	5
Keeping and exposing liquor . . . . .	4
Liquor nuisance . . . . .	2
Larceny . . . . .	2
Malicious mischief . . . . .	5
Non support of children . . . . .	1
Neglected children . . . . .	3
Obtaining money under false pretence . . . . .	1
Refusing to pay for hired team . . . . .	1
Search warrants for stolen goods . . . . .	2
"    "    "    liquor . . . . .	8
Truancy . . . . .	1
Threats . . . . .	2
Vagrants . . . . .	2
Drunks arrested and let go under new law . . . . .	43
"    "    "    "    2nd time under new law . . . . .	3
"    "    "    "    3rd "    "    "    "    . . . . .	2
One sent to the Reformatory.	
"    "    "    House of Correction, 6 months.	
Patients carried to Danvers hospital . . . . .	6
Arrested for out of town officers . . . . .	2
Lost children returned to their homes . . . . .	8
Defects in highway reported . . . . .	10
Doors found unlocked and secured . . . . .	8
Water bursts reported . . . . .	9
Complaints investigated . . . . .	61
Dogs killed and disposed of . . . . .	12
Stray teams taken care of . . . . .	6

Disturbances suppressed . . . . .	15
Fire alarms given . . . . .	2
Dog notices sent out . . . . .	160
Lanterns hung in dangerous places . . . . .	20
Street lights reported out . . . . .	97
Lives saved at the depot . . . . .	4
Lodgers accommodated . . . . .	85
Board of Health notices served . . . . .	49
Board of Health cards for contagious diseases . . . . .	76

The property of the police department consists of

Six pairs hand cuffs . . . . .	\$21 39
One pairs leg irons . . . . .	5 00
Seven pair chain twisters . . . . .	7 00
Eight long clubs . . . . .	10 00
Eight short clubs . . . . .	8 00
Five short leather clubs . . . . .	\$3 75
Eight leather belts . . . . .	8 00
Twelve officers' badges . . . . .	15 00
Eight (small) officers' badges . . . . .	4 00
Three doz. buttons . . . . .	1 80
One desk . . . . .	21 00
Four chairs . . . . .	4 00
One clock . . . . .	5 00
One cabinet . . . . .	18 00
One copy Public Statutes . . . . .	4 00
One " " " supplement . . . . .	3 00
One Democrat wagon . . . . .	65 00
One B. plate harness . . . . .	25 00
One whip . . . . .	1 00
One blanket for horse . . . . .	6 50
Three blankets for lock-up . . . . .	5 00
Three pails for lock-up . . . . .	45
One copy of Heard's criminal law . . . . .	3 00
One measuring stick . . . . .	4 00
One " tape, 100 ft. . . . .	1 00
Two shovels . . . . .	2 00
Five lockers for clothing . . . . .	45 00

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\$296 89

The force as now organized consists of a chief, one man from 7.30 in the morning until one p. m. Four men coming on duty at seven p. m., until four a. m., the chief coming on duty at the station at one p. m., until 11 p. m.; the rest of his time is spent in investigating complaints, attending to the cases in court, and a large number of matters in connection with the duties of police business, of which the public as a whole, have but a very limited knowledge. I would call your attention to the very urgent need of an officer on duty at the station all night to attend to any calls that may come, also to attend to the prisoners that may be confined in the lock-up. I would also urge the necessity of removing the lock-up to the south end of the building. In its present location anybody can pass anything, or have conversation with anybody under arrest. Our town for the past year has been very free from crime of a serious nature, considering its close proximity to a large city; over ninety per cent. of the parties arrested for drunkenness coming from out of town, as the police records will show. It gives me pleasure to state that the department was never in better condition than at the present time, and will compare favorably with any department of its size in the state. In closing, I wish to thank each member of the Board of Selectmen for their aid and kind advice during the past year. Also every member of the department for their cheerful obedience to all orders given them, and in conclusion I will say that I have endeavored to discharge the duties of the office faithfully and impartially. I have the honor, gentlemen, to remain your obedient servant,

FRANK M. McLAUGHLIN,

*Chief of Police.*



## Report of the Board of Health.

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There has been no change from the previous year in the membership of the Board of Health. The election of its members for one, two and three years insures a permanency of the Board, which is of decided advantage in furthering any plans, looking to the future, for the improvement of the sanitary condition of the town. On Tuesday evening, March 3rd, 1891, the Board met and continued the organization of 1890 by again choosing Dr. E. S. Jack, Chairman, and George W. Burke, Secretary. John Larrabee was appointed special agent to issue burial permits. Regular meetings, in accordance with a vote of the town, were held on the first and third Tuesdays of the month until June 3rd, when it was voted to hold them upon the second and fourth Tuesdays. This was done that the Board might not inconvenience the Board of Selectmen and in order that the Board might enjoy a freer discussion than could be had in meetings held in common with other town officers.

### NUISANCES.

Nuisances, in all instances as promptly as was possible, have been investigated and have been found of much the same character as last year. Personal suggestions have been much more readily listened to, and consequently it has been necessary to serve fewer notices. In no case has it been necessary to appeal to the courts. Much of the com-

plaint from that intolerable nuisance, a piggery, has been stopped since the town has undertaken to collect the swill by contract, and the collection by private individuals has been stopped. It is said that pigs can be kept without creating a nuisance. If this is so, unless it is done, it is the opinion of the Board that no pig should be allowed to be kept within the town limits.

Although the State law allows Boards of Health to make such regulations as it judges necessary for the public health and safety, still it has been the desire of the Board, to act as far as it could, in accordance with the wishes of the town.

It is a matter of regret that the town should have voted against giving the Board power to make such regulations as they deemed necessary for the safety and health of the people with reference to house drainage. Plumbing rules and regulations are necessary in every town, but particularly so in one growing as rapidly as Melrose. A careful inspection and regulation of the plumbing and material used in many new houses being built would greatly benefit the health of the town and be an important sanitary measure for the prevention of nuisance and disease in the future.

Such rules are necessary to remove that unmitigated nuisance, the old fashioned privy from places in this town where it has been found by experience that cleaning and ventilation do little to palliate the evil.

#### SWILL.

With the small appropriation, it was out of the question at the beginning of the year to do anything towards collecting the town swill. Its collection was therefore left to private individuals. The question was then discussed whether they should be licensed and obliged to furnish the names of fam-

ilies from whom they collected or whether they should work without license or control. The Board, employing no special agent, felt that nothing was to be gained by license, and, while regretting that the collection of swill should go into the hands of those who were known to gather it wherever and whenever they pleased, and to transport it in any kind of receptacle or conveyance, they took no action in the matter. In town meeting called June 22, the sum of \$1,500 was voted for collection of swill. Bids were at once advertised, and on July 1st, the contract was awarded to J. O. Elms, and the following regulations were adopted and published for six months.

EXTRACT PUBLIC STATUTES. *Chap. 8, Sec. 18.* The Board shall make such regulations as it judges necessary for the public health and safety. \* \* \* Whoever violates any such regulations, shall forfeit a sum not exceeding one hundred dollars.

#### RULES AND REGULATIONS OF THE BOARD OF HEALTH.

All house offal, whether consisting of animal or vegetable substances, shall be placed in suitable vessels, and no ashes or other refuse matter shall be mingled therewith, and the same shall be kept in some convenient place to be taken away by the swill collector, which shall be done as often as twice each week.

No person shall, without a permit by the Board of Health, collect, remove or carry through any street, alley or public place in the town, any swill or offal from any dwelling house, or other place. And the only person who is authorized to collect swill in the town of Melrose for the ensuing year is J. O. Elms.

The Board desires that all complaints be made known to them at once.

The Board has received no complaints and all requests for the collection of swill have been promptly attended to.

These requests have come from those, who at first refused to keep their waste for the town collector or from those who, away for a longer or shorter period, had failed to notify the collector of their return. The Board of Health, therefore, feel that the work has been well done, and recommend that the work be continued. The collection of ashes is a question which the town will soon be obliged to consider, and demands careful consideration of the ways and means necessary for its accomplishment. It would be interesting to compute the amount of money expended by the citizens for the removal of ashes and house rubbish, which though they hardly can be called wasted, yet, if intelligently disposed of, might be of money value to the town.

On the fifteenth of September appeared the first case of diphtheria, which afterwards became epidemic in this town, forty-four cases appearing between this time and Nov. first, with five deaths ; a small percentage when we consider the severity of the epidemic. Eight of these cases were at the center, thirty-three at the Highlands and three at Wyoming.

There was nothing in the sanitary condition of the places visited to explain the cause of the diphtheria. On the 24th of September the Board of Health being informed that malignant diphtheria existed in the town of Saugus, investigated the report at once and found the disease was in the family of a man named Penny; that one of his children had died of the disease and also found that he had supplied milk to two of our local milkmen, one of whom was still obtaining a portion of his supply there. Further investigation showed that the one who first obtained his supply there, when he saw diphtheria appearing upon his route, stopped taking this milk but did not notify the Board of Health. It was upon the route of this same man that diphtheria appeared when it was epidemic in Melrose in 1886 and from his experience he readily associated cause and effect and

sought milk elsewhere. It is to be regretted that another should have taken this same milk, a thing that would have been prevented had the Board known of the above facts earlier. This milk supply was stopped immediately and energetic measures taken to thoroughly disinfect all vessels that had been used in the conveyance of this milk. No can was left at any house containing a case of diphtheria, isolation was enforced, and disinfection was carried out under the direction of the Board of Health. The schools at the Highlands were closed and every precaution that suggested itself taken to prevent further spread of the disease. By these means the Board of Health know that the spread of the disease was stopped, the only cases appearing afterwards being in the families where the disease existed and in those who had been exposed by contact with the patient.

Every case of diphtheria was directly traced to this milk. The first cases were supplied by the milkman, who first obtained his milk at the Penny farm, and which, with one exception, were at the centre. The Highlands were supplied by man number two, who also supplied with milk the families at the centre in which the disease appeared at the time it was prevalent at the Highlands.

If this is a mere coincidence, to quote from the report of Dr. J. S. Clark to the State Board of Health on the epidemic of 1886: "It attains to the marvellous when we consider that of probably 30 distributors of milk this disease only followed in the trail of a certain supply and failed to appear on the routes of 20 or more who drew their supply elsewhere and none of whom peddled this particular milk.

During the year 1891-92 151 cases of contagious diseases have been reported to the Board of Health, as follows :

	Scarlet Fever.		Measles.		Diphthe- ria.		Typhoid Fever.		Croup, Membra- neous.		
	No. of cases.	No. of deaths.	No. of cases.	No. of deaths.	No. of cases.	No. of deaths.	No. of cases.	No. of deaths.	No. of cases.	No. of deaths.	
January . . . .	3	...	2	...	1	...	1	...	1	...	...
February ...	1	...	4	...	...	...	...	...	...	...	...
March . . . . .	3	...	6	...	...	...	1	...	...	...	...
April . . . . .	2	...	12	...	1	...	...	...	...	...	...
May . . . . .	2	...	15	...	...	...	1	...	1	...	...
June . . . . .	4	...	18	...	1	...	...	...	...	...	...
July . . . . .	0	...	2	...	1	...	...	...	...	...	...
August . . . . .	1	...	3	...	...	...	1	...	...	...	...
September ..	2	...	...	...	17	...	3	...	...	...	...
October . . . .	0	...	...	...	26	...	3	...	...	...	...
November ..	3	...	...	...	2	...	...	...	...	...	...
December ..	6	...	...	...	3	...	1	...	...	...	...

Of these 62 cases were of measles, 27 of scarlet fever, 10 of typhoid, and 52 cases of diphtheria. There have been fewer cases of scarlet fever this year than the year before; the cases being of a mild character and at no time has the disease been epidemic. During the year we have had 10 cases



of typhoid fever, which is the same number as occurred in 1890-91; 62 cases of measles and 52 of diphtheria have been reported. As it has only been for the last year that it has been required to report cases of measles it is possible that in a few instances physicians may have failed to notify the Board of cases under their care. Undoubtedly cases of measles occur when the disease is so mild that a doctor is not called and the cases are not reported. Yet so far as known physicians have faithfully reported their cases of contagious diseases, and many householders, as required by the law of the state, have notified the Board of cases in their own families. As to the number of cases of measles the explanation is found in the popular idea of the harmlessness of the disease and in the consequent neglect of isolation. This is wrong for no one from one case can judge of the severity of subsequent cases, and, although the mortality from measles is small, yet complications may follow that, if they do not result fatally, injure the patient perhaps for life. Houses, containing cases of scarlet fever and diphtheria, have been placarded as heretofore. When the card is posted, inquiry is made as to the probable source of the disease, the number of families in the house, the number of children and what schools they attend. The teacher or teachers are then informed upon a printed slip, of the name and residence of the patient, and notified that such children be excluded from school until such time as the Board of Health or attending physician certifies that they may be safely readmitted. Disinfection is required and it is a matter for regret that it cannot always be done under the direction of the Board. The Board of Health believe that energetic measures are necessary to control the spread of contagious diseases, and that they are necessary to impress upon the minds of some that diphtheria, for instance, is dangerous. Ignorance is a great obstacle but it is not the only difficulty to

contend with. There are a few who do not believe in disease germs, and naturally do not believe that disease may be communicated through clothing, etc., or through the medium of food and drink. They see no reason for isolation and are glad to have their neighbors run in. The disease germs do exist, and while they flourish in filthy places, they may be carried about in the clothing, books, etc., and thrive in food and drink.

In the report of Board of Health of Cambridge for 1890, we find the following :

“As a vehicle for their (disease germs) conveyance, there is probably not one which can surpass so necessary an article of food both to old and young, as milk. In the language of the bacteriologist, milk is one of the best “culture media” for nearly every species of germ, harmless as well as disease-producing. We must not expect that milk containing pathogenic germs shall make its dangerous nature known to the sight or the sense of smell. As the most deadly sewer air may be without odor, so may milk bearing disease germs be without any property that shall give warning to the senses of its noxious qualities.”



THERE WERE 152 DEATHS DURING THE YEAR FROM THE FOLLOWING CAUSES.

Accidents . . . . .	5	Heart disease . . . . .	12
Alcoholism . . . . .	1	Hemorrhage of lungs . . . . .	1
Anæmia . . . . .	1	Intestinal obstruction . . . . .	1
Apoplexy . . . . .	6	La Grippe . . . . .	1
Brain disease . . . . .	2	Locomotor ataxia . . . . .	1
Bronchitis . . . . .	1	Malignant disease of	
Bronchitis capillary . . . . .	1	bowels . . . . .	2
Bright's disease acute . . . . .	2	Marasmus . . . . .	6
Cancer . . . . .	5	Meningitis . . . . .	1
Carcinoma of liver . . . . .	1	Meningitis cerebro-spinal . . . . .	1
Cellulitis . . . . .	1	Ossification of heart . . . . .	1
Chronic nephritis . . . . .	4	Oedema of lungs . . . . .	1
Cholera infantum . . . . .	1	Old age . . . . .	8
Croup membranous . . . . .	2	Pneumonia . . . . .	13
Consumption of bowels . . . . .	1	Phthisis . . . . .	11
Convulsions . . . . .	5	Paralysis . . . . .	10
Debility . . . . .	1	Quinsy . . . . .	1
Diarrhoea . . . . .	3	Rheumatism . . . . .	1
Diphtheria . . . . .	8	Shock . . . . .	1
Disease of liver . . . . .	1	Still-born . . . . .	13
Diabetis . . . . .	2	Suppression of lochia . . . . .	1
Dysentery . . . . .	1	Suicide . . . . .	1
Exhaustion . . . . .	2	Typhoid fever . . . . .	3
Eudocarditis . . . . .	1	Uraemia . . . . .	1
Gangrene . . . . .	1	Unknown . . . . .	1

A careful consideration of the tables in the report of the Town Clerk shows that the greatest number of deaths occurred in the winter months and in people over 60 years of age. That the grip influenced directly or indirectly this increased mortality cannot be doubted when we consider the great increase in the death-rate throughout the State.

E. S. JACK, M. D.,  
FRANK L. WASHBURN,  
GEO. W. BURKE,

*Board of Health.*

# Report of the Superintendent of Streets.

*To the Hon. Board of Selectmen :*

GENTLEMEN : — I herewith submit a statement in detail of the labor performed and the amounts expended under my superintendence, in compliance with orders received from your board, upon the highways, for concrete crossings and gutters, for sidewalks, street crossings, and for drainage, bridges and culverts.

## *Highways.*

There has been expended for labor on the streets named below, sums as follows :

Batchelder street	.	.	.	.	.	.	\$50 00
Cedar Park	.	.	.	.	.	.	208 75
Cherry	"	.	.	.	.	.	75 00
Cleveland	"	.	.	.	.	.	400 00
Eighth	"	.	.	.	.	.	50 00
Emerson	"	.	.	.	.	.	100 00
First	"	.	.	.	.	.	200 00
Florence	"	.	.	.	.	.	50 00
Gooch	"	.	.	.	.	.	114 32
Grove	"	.	.	.	.	.	90 00
Grundy	"	.	.	.	.	.	40 00

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*Amount carried forward,* . . . \$1,378 07

<i>Amount brought forward,</i>						\$1,378 07
Highland street	.	.	.	.	.	400 00
Lake ave.	.	.	.	.	.	185 00
Lebanon	"	.	.	.	.	275 00
Linden	"	.	.	.	.	30 00
Lynde	"	.	.	.	.	75 00
Main	"	.	.	.	.	429 82
Myrtle	"	.	.	.	.	75 00
Orris	"	.	.	.	.	200 00
Parker	"	.	.	.	.	100 00
Pleasant	"	.	.	.	.	286 20
Second	"	.	.	.	.	300 00
Swain's Pond ave.	.	.	.	.	.	100 00
Tappan street	.	.	.	.	.	194 12
Upham	"	.	.	.	.	225 00
Washington	"	.	.	.	.	245 00
Winthrop	"	.	.	.	.	100 00
						<hr/>
						\$4,598 21

*For Macadamizing Streets.*

Cost of stone broken and in elevator	\$1 14 per cubic yd.
Cost for teaming, spreading and rolling	50 " " "
<hr/>	
Cost complete, ready for use	\$1 64 " " "
" " " " "	36½" square "

The product of the crusher was 2,886.78 cubic yards, all of which has been placed upon the following streets :

Cedar Park, 92.59 cubic yards, cost	\$ 151 85
Emerson street, 222.22 cubic yards, cost	364 44
Essex " 1222.22 " " "	2,004 44
Franklin " 333.33 " " "	546 66
Vinton " 268.15 " " "	439 76
Wyoming avenue, 604.94 " " "	992 10
<hr/>	
\$4,499 25	

The balance, 143.33 cubic yards has been used in general repairs in different sections of the town.

*Concrete Sidewalks, etc.*

Total amount of concrete laid	6,754 yds.
Sidewalks	5952.72 "
Crossings	260.45 yds.
Gutters	540.83 "
At an average cost of 50 cents per square yard.	

*For Repairs, New Walks Laid.*

Second street	41.30	"
Franklin school	8.53	"
" street	53.82	"
" " to Vinton street	422.63	"
R. C. Taylor, Emerson street	95.20	"
A. W. Parker, Vine	36.90	"
H. A. Leonard, Lebanon	40.30	"
B. F. Bradbury, Main	63.91	"
Hose house, Highlands	142.35	"
School " "	6.50	"
	<hr/>	
	911.44	"

*Concrete Crossings and Gutters*

Have been laid at the following places:

Court off Franklin street, cross-		
ing.	11.90 yds	
Sargent street crossing	22.40 "	
Pratt "	17.30 "	
Cliff "	18.55 "	
Ashland "	29. "	
Emerson "	73.60 "	
Upham "	26.40 "	
Howard "	61.30 "	260.45 yds.
Second " gutters	389.10 "	
Walton Park "	64.23 "	
Emerson street "	87.50 "	540.83 yds.

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801.28 yds.

At a cost of 50 cents per yd.. \$400 64

*Stone Crossings.*

Stone flagging crosswalks have been laid

Opposite Methodist church

“ George Newhall's store

“ M. F. Eastman's block

“ Post-office

“ Bugbee & Barrett

At Grove street

“ Wyoming ave.

Cost of stone	\$145 00
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“ “ labor	72 50
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Total,	\$217 50
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## DRAIN PIPE AND CATCH BASINS LAID IN 1891.

STREETS.	DRAIN PIPE.			CATCH BASINS.			
	No. feet	Size.	Cost.	No.	Cost.	Labor	Totals.
Adams	180	8	\$ 36 00				
"	25	6	3 75			\$36 50	\$76 25
Berwick				1	\$ 6 38	8 00	14 38
Cherry and Willow	414	6	62 10	2	12 77	57 40	132 27
Emerson & Tremont	1290	8	258 00	2	12 77	145 00	415 77
Essex				1	6 38	8 00	14 38
Foster	60	6	9 00	1	6 38	14 00	29 38
Franklin through Vinton	486	8	97 20	1	6 38	56 60	160 18
Franklin near Depot	60	8	12 00			6 00	18 00
Franklin from Pratt to br'k	375	8	75 00			37 50	112 50
Gooch	30	12	11 20	1	6 38	11 90	29 48
Green	356	8	71 20	2	12 77	51 60	135 57
Grove	240	8	48 00	3	19 16	48 00	115 16
Grove and Dell ave.	1200	12	448 00				
" " " "	50	8	10 00	6	38 32	211 81	708 13
Main and Essex	20	6	3 00	1	6 38	10 00	19 38
Orris	368	6	55 20	1	6 38	44 80	106 38
Trenton, (Second)	20	6	3 00	2	12 77	18 00	33 77
(Third)							
Vinton	345	8	69 00	2	12 77	50 50	132 27
Washington	150	8	30 00	1	6 38	23 00	59 38
Wyoming avenue	15	6	2 25	1	6 38	9 50	18 13
Second	75	10	21 75				
"	200	6	30 00	2	12 77	45 75	110 27
Third	48	12	17 92			6 24	24 16
Totals . .	6007		\$1373 57	30	\$191 52	\$900 10	\$2465 19

Cementing and concreting around catch basin covers, 12 04

Total cost, . . . . . \$2,477 23

Average net cost of pipe per foot: 4 in., 10c.; 6 in., 15c.; 8 in., 20c.; 10 in., 29c.; 12 in., 37½c.

*Ell Pond Brook.*

By your direction Ell pond brook has been widened and cleared of obstructions, the channel deepened, and new culverts built over the brook at Berwick street, near the Wyoming depot, at Grove street, and at Main street near its junction with Grove street. These culverts are now 12 feet wide and of sufficient capacity to allow of the free passage of the water. The total amount paid for labor and teams on the above was \$2,294.22 ; for covering stone, \$1,260 ; for sundries, \$494.20 ; total \$4,048.42.

Respectfully submitted,

WALTER B. ELLIS.

*Superintendent of Streets.*

# REPORT

OF THE

## Committee on Electric Lighting,

APPOINTED BY VOTE OF THE TOWN,

FEBRUARY 16TH, 1891.

MELROSE :

DUNTON & POTTER, PRINTERS, REPORTER OFFICE.

1892.





## Report of the Committee on Electric Lighting.

MELROSE, Feb. 15, 1892.

*To the Citizens of the Town of Melrose:*

The undersigned, your committee on electric lighting, respectfully beg leave to report as follows :

At the town meeting of June 22, 1891, the following motion was offered and unanimously carried.

“ That the committee on electric lighting be directed to inquire and report at a subsequent meeting whether in their judgment it is expedient and desirable for the town to erect and maintain a plant for the generation and distribution of electricity for public and private lighting; also what will be the probable cost of a complete electric light plant suitable for the necessities of the town.”

And it is under said vote that this report properly belongs.

At the meeting above referred to you also passed by a practically unanimous vote, the following :

“ That it is hereby declared expedient for the town to exercise the authority conferred in an act to enable cities and towns to manufacture and distribute gas and electricity passed by the Legislature of 1891.”

Before the town can exercise the authority conferred in said Act it will be necessary to pass a second and substantially the same vote at a subsequent meeting by a two thirds vote. And this having been accomplished, the town

will be confronted by the question of an appropriation or a loan to carry out the intention of said votes.

Inasmuch as none of your committee could lay claim to being experts in the art of electricity, it seemed necessary at the outset to secure the services of an electrician thoroughly familiar with the subject of its generation and application, and in this we believe we have been successful.

Mr. Eugene F. Carpenter, electrical engineer, whose report to your committee is included herein, came to us highly recommended and was previously known to some of us as the successful manager of the extensive electric light plant at Gardner, Mass.

It is perhaps unnecessary to state that because of these facts we have the utmost confidence in the value and correctness of his conclusions.

Previous to the engagement of Mr. Carpenter your committee had secured from Mr. Walter C. Stevens a carefully executed plan of the town, and with this in hand, and acting under the general instructions of your committee, Mr. Carpenter proceeded to an investigation of the subjects committed to him with the following result :

MELOSE, August 11, 1891.

*To the Committee on Electric Lighting:*

I have carefully considered the subjects presented to me by your committee and herein respectfully submit a report of my investigations and conclusions. The subjects may properly be classified under four heads as follows :

1st. To ascertain what lights the town now has and where located.

2d. To locate as many lights as would be required to light the entire town in a first-class manner to the town limits in all directions.

3d. To design a plant suitable and adequate to this purpose and ascertain its probable cost.

4th. To compare cost of present lighting with the estimated amount required as described; the town owning and operating the plant.

Taking the map of the town which had previously been prepared, I went over the entire territory on foot and marked thereon the location of all existing lights.

A summary of this work shows that there are at present 28 arc lights, 80 incandescent lights and 160 oil or naphtha lamps on the streets.

In the Town Hall building there are 240 gas burners; in the High School building, 62; hose house No. 1, 16; hose house No. 2, 4; and at hose house No. 3, 13 oil lamps, making a grand total of 28 arc and 80 incandescent electric lights; 322 gas and 173 oil or naphtha, for all of which the town is paying \$6,810.80.

I next made a study of the needs and character of the town and for this purpose found it necessary to go over the streets of the town three different times.

As a result of this, I came to the conclusion that 82 1200 candle power arc and 266 25 candle power incandescent would be sufficient to light the streets to the town limits in all directions in a strictly first-class manner. I suggest that these lights should be located as follows:

St. or Ave.	Arc.	Incan.	St. or Ave.	Arc.	Incan.
Adams		3	Brown		1
Albion		3	Cedar	1	6
Ashland	2	1	Charles		2
Auburn		1	Cherry		2
Avon	1	1	Chestnut	1	3
Batchelder		3	Chipman	1	
Baxter		3	Circuit		2
Bellevue	3	3	Cleveland	1	3
Bellemont	1	2	Cliff		1
Berwick	1	2	Cottage	2	2
Botolph	1	1	Cutter		2
Brazil		3	Crystal		1
Briggs		1	Dell	2	1

St. or Ave.	Arc.	Incan.	St. or Ave.	Arc.	Incan.
East		4	Otis		3
Eighth		1	Park		4
Eleventh		2	Parker		1
Elm	1	1	Perkins	1	
Emerald		2	Pine		1
Emerson	8	7	Pleasant		8
Essex	5	1	Poplar		2
Faxon		2	Porter	3	7
First		8	Pratt		1
Florence		4	Prospect	1	4
Forest		2	Rowe	2	1
Foster	5	5	Russell		2
Franklin	9	2	Sanford		5
Glen		1	Sargent		2
Gooch		4	School		4
Goodyear	3		Second		8
Gould		3	Sewell		2
Green	6		Short	2	
Greenwood	2		Sixth		4
Grove	3	8	Summer	2	1
Grundy		1	Summit		1
Herbert		2	Swains		13
High		4	Sylvan	1	7
Highland	1	4	Tappan		3
Hillside		3	Third		7
Howard	1	7	Tremont	3	8
Hurd	2	2	Trenton	1	6
Lake	1	3	Union		1
Larrabee		3	Upham	4	16
Lebanon	3	15	Vine	1	2
Leeds		3	Vinton	9	1
Linden	1	3	Walnut		2
Linden pl.		1	Walton	1	3
Linwood	2	5	Warren	2	
Lynde	3	2	Washington	1	14
Main	19	6	Waverly		1
Malvern		4	Waverly pl.	1	
Maple	1	3	West Hill	1	
Melrose	4	3	Whittier	1	2
Meridian		4	Willow		4
Mountain		1	Winter		1
Mt. Vernon	1	3	Winthrop	1	1
Myrtle	3	5	Winthrop pl.		1
Oakland		4	Woodland	1	3
Old County	1	1	Wyoming	9	2
Orient		3	Youle	1	2
Orris	2				

These lights I would run on four circuits as follows :

Circuit.	No. of Poles.	Feet of No. 6 Wire.	Arc.	Inc.	Watts.	H. P.
1.	238x24	41,500	24	57	12960	17. <sup>4</sup>
2.	253x24	48,250	24	58	13040	17. <sup>5</sup>
3.	246x22	45,500	22	59	12420	16. <sup>7</sup>
4.	325x12	51,500	12	92	11560	15. <sup>5</sup>
	82 82	186.750x39,582=74 ohms or				3626 4. <sup>9</sup>
Tot'ls,	1144		82	266	53606	72

Assuming 20 per cent. loss in dynamos, belts and shafting, I find it would require ninety-horse power to produce current for the aforesaid circuits and lamps.

I propose for the Town Hall building, 250 lights ; High School building, 100 ; Hose 1, 16 ; Hose 2, 6 ; and Hose 3, 13 ; making a total of 385 lights of 16-candle power each.

The buildings can be wired and supplied with suitable fixtures complete, for \$1165.

These lights would require about twenty-horse power at the engine for six hours every night.

I have not included this sum in the cost of plant as it is in no sense a part of it, but is an improvement to the buildings wired

I have chosen for a station a plain substantial brick building, 50 feet by 56 feet outside, one story high with basement, and an ell 40 feet by 29 feet with flat roofs.

In designing this building what is known as "Mill" construction has been adopted, as this type commands the lowest insurance rate.

The main building is to have a graveled roof, while that of the ell in which boilers are to be located will be of iron.

In the basement will be located the shafting, pulleys, condensers, etc., and there will also be a large store room for wire, lamps, carbons and other materials.

On the first floor which is level with the ell or boiler room will be the engines, dynamos, switchboards, and the office.

This station building will have a capacity for a 500 horse power plant, and in my judgment this capacity will be required during the next five years if commercial lighting is undertaken.

It is so designed that by taking down a twelve inch brick wall at one end, the building may be extended to a capacity of 1,000 horse power. The chimney would then be in line of a symmetrical building and will be of sufficient size for the completed plant. I would recommend a horizontal tubular steel boiler, 66 x 17, built for 125 pounds pressure, and a 12 x 22 x 24 compound condensing engine, built to make one hundred and twenty revolutions per minute.

This combination would give 175 horse power which would be ample to drive one 27 Kilowatt and four 15 Kilowatt dinamos, the former for incandescent and the latter for arc lights and street incandescents.

I recommend the series system for wiring the streets so that either incandescent or arc lights may be used on a single wire, and an arc light installed in the place of an incandescent, or vice versa, at a trifling expense.

When the proposed lights are all running there will still remain a station capacity for 27 more arc, or 121 street incandescent, and 215 sixteen candle power incandescent lights. The last would be available for commercial lighting and should produce an income of \$2,000.00 per annum. 1153 poles and 206,350 feet of wire would be required.

I have considered most of the available systems, both as to the power and the electric plants.



The building was estimated on by the contractor, who built the new passenger station at Wakefield, and while this might be cheapened, I do not think it advisable. I have selected that which I consider best in every case, and while a station of the same capacity can be constructed for a little less money, I feel that the saving in repairs and operating expenses, and the increased excellence of the service will abundantly repay the outlay, which is estimated as follows :

Lot with buildings and chimney . . . . .	\$16,600 00
Engine, boiler, piping, shafting, pulleys, and belts complete . . . . .	8,602 46
Dynamos, lamps, poles, wire, etc., complete . . . . .	21,008 16
Incidentals, office furniture, books, etc. . . . .	1,289 38
<hr/>	
Making a total of . . . . .	\$47,500 00

Taking the power as previously estimated I find we shall have 224,430 horse power hours per annum. Assuming a consumption of 3 lbs. of coal per horse power hour, with coal at \$4.50 per ton, we get \$1,516.50 as the annual cost for fuel.

I have gone carefully over the entire operating expenses of the proposed plant with a result as per the following summary :

Salary and wages to manager and three men . . . . .	\$3,125 00
Fuel . . . . .	1,516 50
Carbons . . . . .	203 21
Incandescent renewals . . . . .	800 00
Globe breakage . . . . .	10 00
Oil, waste, etc. . . . .	100 00
Depreciation, 2 per cent. . . . .	950 00
Insurance, $\frac{1}{2}$ per cent. . . . .	237 50
Interest, 5 per cent. . . . .	2,375 00
Incidentals . . . . .	182 79
<hr/>	
Making a total operating expense of . . . . .	\$9,500 00
Less income from commercial business . . . . .	2,000 00
<hr/>	
	\$7,500 00



Or a net total of about \$700.00 per year more than the town is now paying, and this with the public buildings, and the streets to the town limits lighted brilliantly by electric lights.

The division of cost predicated on the foregoing estimates may be apportioned as follows: Allowing say \$2,320.00 for interior lighting which includes the surplus available for commercial business, I find the cost of arc lights will be \$35.00 each, and the incandescent \$8.75 each per annum.

Having thus far confined myself strictly to the question of lighting the streets and public buildings of the town, I will now take up the matter of commercial business,

Responses received by your Committee in reply to the inquiries which were widely distributed indicate an immediate demand for about 1,000 incandescent lights for commercial use.

To be able to meet this demand more power than has thus far been provided would be a necessity.

If this business is, therefore, to be undertaken, I would advise a 15x30x30 compound condensing engine, constructed to make 115 revolutions per minute; and two horizontal tubular boilers each 66 inches in diameter and 19 feet long, instead of the power plant previously proposed.

This combination would give 312 horse-power, which would be ample, and, with the necessary belts, shafting, pulleys, etc., would cost \$13,712.46.

The two available methods of supply are by the alternating system as built by the Thomson-Houston, Westinghouse and Fort Wayne companies, and by the *three-wire* feeder system of the Edison Company, the latter, which for various reasons, as explained to you personally, I do not think it necessary to now consider.

I will first consider the alternating system, but will not attempt to go into unnecessary details. I estimate on

transformers or converters enough for 4,000 lights ; dynamos of 125 Kilowatt capacity ; 165 meters of different sizes, as required. with necessary wire apparatus, material and labor, making a complete plant of size sufficient to take care of 4,500 16-candle power lights wired. This incandescent plant can be installed together with the street lighting plant described previously, for \$40,348.49, making the total cost of plant by this system as follows :

Real estate . . . . .	\$16,600 00
Power plant . . . . .	13,712 46
Electric plant . . . . .	40,348 49
Incidentals . . . . .	339 05

*Making a total of . . . . .* \$71,000 00

The estimated annual cost of operating this system would be as follows :

Salary and wages . . . . .	\$4,000 00
Fuel . . . . .	3,500 00
Carbons . . . . .	203 21
Incandescent renewals . . . . .	2,000 00
Globe breakage . . . . .	10 00
Oil, waste, etc., . . . . .	200 00
Depreciation, 2 per cent. . . . .	1,420 00
Insurance, $\frac{1}{2}$ per cent. . . . .	355 00
Interest, 5 per cent. . . . .	3,550 00
Incidentals . . . . .	761 89

*Or a total of . . . . .* \$16,000 00

With the 4,500 lights disposed of, which I believe will be easily done within a comparatively short time, and assuming the average income from each to be \$3.33 $\frac{1}{3}$  per annum (which would be a low and conservative estimate), we have a total income from this source of \$15,000, which reduces the cost of street lighting to \$1,000 per annum, or, say, \$6.67 each for arc and \$1.70 each for street incandescent.

Respectfully submitted,

EUGENE F. CARPENTER.

Your committee believe there will be but slight dissent from their opinion that our town is at present but indifferently lighted, and that an improvement in this respect is most desirable, even though it be at a somewhat increased expense.

A city or town brilliantly lighted is believed to be in the interest of security and good order, and in many places is properly considered an ally of the police, and a considerable factor in enabling their number to be kept at a minimum.

We are fortunately situated for the establishment of a town electric plant, having a large and constantly increasing population of thrifty people well distributed about a common centre, and from which electricity can be economically distributed, the maximum distance from a properly located electric station to the town limits in any direction not exceeding one and a quarter miles.

The street lighting has not kept pace with the rapid growth of the town or with many other improvements, and it is manifest that were it not for the expectations of something better to come as a result of the investigations of your committee, the demand for more and better lighting in many parts of the newly settled localities would long ere this have been irresistible.

Unless the town shall immediately proceed to acquire an electric plant of its own, we believe the demand for lights will force a large increase of expense in the kind of service now in use.

It will be obvious from the foregoing that this committee are of the opinion that the town should erect and operate an electric plant of its own. We are also of the opinion that the business of commercial lighting should be undertaken and a plant of sufficient capacity provided or projected which will enable the town to meet all demands made upon it, and it is quite within the bounds of possibil-

ity that the town will shortly need such a plant for heat as well as light.

Light and heat, as well as water, are necessities, and we have heard no good reason advanced why the citizens of the town should not by means of their town organization provide themselves with both, as well as water, at cost.

To the other attractions of our town which are inducing a rapidity of growth, exceeded by few if any towns in the State, your Committee believe this boon of cheap and abundant illumination should be added, and that it will prove to be an investment easily justified.

It was our intention to refer in detail to the report of Mr. Carpenter, but this seems hardly necessary as he has largely avoided details and technical terms, which would only tend to confuse, and which makes his report so clear as to be easily comprehended by the average citizen.

Our instructions were to condense said report as much as possible to the end that it might be easily understood, and in this it seems to us he has been eminently successful.

It is perhaps unnecessary to state that in the course of his investigations Mr. Carpenter accumulated a mass of facts and statistics all leading up to the conclusions he has reached and which have been, and still are, available for the uses of your committee.

It will be easily apparent that many facts and estimates acquired during our investigations may well be excluded from a public report.

This report and its conclusions are by no means predicated entirely on the findings of Mr. Carpenter, but is largely the result of our own observations and inquiries from day to day.

We are not at this writing prepared to state what general plan will receive our endorsement or which system our recommendation.

Mr. Carpenter has stated in a general way the various methods by which the result we are after may be attained and the probable cost of same.

The development of the art of electric lighting is rapid and constant, but we can hardly afford to wait for the perfection which may never come, but should avail of the most recent improvements in existence at the time the work is undertaken, provided the town should decide to embark in the enterprise.

We are therefore inclined to the opinion that this committee should stand committed only to the principle and not to a plan or system.

If the work is undertaken at all it should be confided to those only in whom the town has sufficient confidence to entrust the expenditure of a sum sufficient to secure the best.

We believe this can be done for an amount not to exceed \$75,000.00.

The expenditure of so large a sum will involve the town in a matter of much importance, and the subject should command the attention of every thoughtful citizen interested in its welfare.

Your committee will undertake to see that the [matter] is submitted to the town at the approaching annual meeting in such manner that it may receive your intelligent consideration.

Respectfully,

C. H. LANG, JR.  
GEORGE T. BROWN.  
W. E. BARRETT.  
LEVI S. GOULD.  
GEORGE R. JONES.

## Report of Engineers of Fire Department.

*To the Honorable Board of Selectmen:*

The Engineers of the Fire Department respectfully submit the following report for the year ending December 31, 1891 :

The Department has answered thirteen alarms during the past year as follows:

Jan. 28; box 41; false alarm.

Feb. 15; box 43; house on Winthrop street owned by Mrs. Mary T. Vaughan; occupied by Isaac C. Weeks and C. C. Swett; loss on building, \$750; insurance paid on building, \$750; loss on contents, \$550; insurance paid on contents, \$550.

March 20; box 43; house on Ingalls court, owned by O. Ingalls; loss slight.

April 29; box 51; blacksmith shop on Main street, owned and occupied by John Kennedy; loss \$25.

June 17; box 43; house on Myrtle street, owned and occupied by J. L. Hanaford; loss slight.

July 3; box 37; false alarm.

July 7; box 43; blacksmith shop on Essex street, owned by W. W. Boardman, occupied by A. McBeth; loss slight.

Sept. 25; box 54; barn on Ashland street, owned by W. Magner; loss on barn, \$75; loss on contents, \$25.

Oct. 22; box 51; house on Howard street, owned by Angus McDonald, occupied by Angus McDonald; loss \$38; insurance paid, \$38.



October 24; box 43; carpenter shop and stable on Lebanon street, owned and occupied by James Rendall; loss on building, \$1,000; loss on contents, \$350; insurance paid on building, \$1,000; insurance paid on contents, \$350.

Dec. 8; box 32; store on Main street, owned by A. P. Massey, occupied by J. D. Ferry; loss on building, \$350; loss on contents, \$500; insurance paid on building, \$350; insurance paid on contents, \$325.

Dec. 10; box 41; Brush fire on Park street.

Dec. 30; box 41; building on Lebanon street, owned and occupied by J. J. McCullough; loss on building, \$700; insurance paid on building, \$400; loss on contents, \$500; insurance paid on contents, \$300.

#### LOSSES.

Value of property . . . . .	\$4,863 00
Insurance paid on same . . . . .	4,163 00
	<hr/>
Total loss . . . . .	\$700 00

#### THE DEPARTMENT.

The department consists of a chief and two assistants engineers, one engineman, thirty-six hosemen, twenty hook and ladder men, making a total of sixty men.

#### APPARATUS.

The apparatus consists of one steamer, three hose carriages, one hook and ladder truck, two hose sleds, one two wheel jumper.

#### HOSE.

The total amount of hose in the department is 4,000 feet; 3,000 feet in good order, 1,000 feet not reliable.

## HYDRANTS.

There are at present one hundred and seventy-four hydrants which have been found in good condition.

## FIRE ALARM.

Four new boxes have been added to the system, making a total of seventeen boxes, which have proved satisfactory.

## BUILDINGS.

The house occupied by hose one, and the steamer, is in good repair. Hose two is located in the Masonic building, but it is not a suitable place for the same. The house occupied by hose three at the Highlands has been raised and a cellar built under the same, but will need painting the coming year.

## RECOMMENDATION.

We recommend the purchase of 1,000 feet of hose, also a horse and hose wagon, and that permanent men be appointed for the same.

The rooms occupied by hose two is not adapted for the purpose and does not meet the requirements of the company, to enable them to keep their apparatus in perfect order, and we think that a new house should be built for them.

## APPROPRIATIONS.

The engineers would recommend the following amounts for the coming year.

Current expenses of fire department	.	.	\$4,500	00
For new hose	.	.	650	00

A. WILBUR LYNDE,  
ALBON W. PARKER,  
SAMUEL LEAR,

*Engineers.*



# STATISTICS OF BIRTHS, MARRIAGES AND DEATHS FOR THE YEAR 1891.

	Births.	Marriages.	Deaths.
January . . . . .	17	4	15
February . . . . .	19	10	10
March . . . . .	19	1	11
April . . . . .	10	7	13
May . . . . .	23	5	9
June . . . . .	22	11	7
July . . . . .	17	7	7
August . . . . .	18	5	16
September . . . . .	26	12	13
October . . . . .	21	13	14
November . . . . .	19	13	15
December . . . . .	12	13	22
	<hr/>	<hr/>	<hr/>
	223	101	152

## BIRTHS.

Number registered . . . . .	223
More than last year . . . . .	48
Males . . . . .	122
Females . . . . .	101
	<hr/>
	223

Of the above number 200 were born in Melrose and 22 were born in other places.

Born of American parents . . . . .	105
of foreign parents . . . . .	74
of American father and foreign mother	27
of foreign father and American mother	17
	<hr/>
	223

## INTENTIONS OF MARRIAGES RECORDED.

Whole number of couples . . .		92
Both parties residing in Melrose . . .	49	
But one party residing in Melrose . . .	43	
	—	92

## MARRIAGES.

Whole number . . . . .		102
More than last year . . . . .		2
Both parties American . . . . .	58	
Both parties foreign . . . . .	24	
Parties American and foreign . . . . .	20	
	—	102
First marriage of persons . . . . .	186	
Second marriage of persons . . . . .	17	
Third marriage of persons . . . . .	1	
	—	
		204-102 couples.

## DEATHS.

Whole number registered . . . . .		152
More than last year . . . . .		40
Had residence in Melrose, died elsewhere . . . . .		7
Had residence elsewhere, died in Melrose . . . . .		8
Males (married) . . . . .	21	
Females (married) . . . . .	26	
Widows . . . . .	21	
Widowers . . . . .	16	
Males (single) . . . . .	8	
Females (single) . . . . .	12	
Male children . . . . .	23	
Female children . . . . .	25	
	—	
		152

Under one year (still-born or premature birth, 13)	. . . . .	35
From 1 to 5	. . . . .	7
5 " 10	. . . . .	4
10 " 20	. . . . .	4
20 " 30	. . . . .	11
30 " 40	. . . . .	13
40 " 50	. . . . .	7
50 " 60	. . . . .	11
60 " 70	. . . . .	20
70 " 80	. . . . .	21
80 " 90	. . . . .	17
Over 90	. . . . .	2
		<hr/>
		152

## REGISTRATION OF VOTERS, 1891.

*Males.*

Total number as per last report	. . . . .	1,505
Registered previous to March meeting :		
Feb. 12	. . . . . 7	
19	. . . . . 9	
25	. . . . . 20	
	<hr/>	<hr/>
		1,541
Erased on account of deaths and removals		6
		<hr/>
Erased in October on account of		1,535
Deaths	. . . . . 9	
Removals	. . . . . 77	
Non-payment of taxes, 1890-91	. . . . . 32	
	<hr/>	<hr/>
		1,417

Registered and restored previous to November meeting :

Sept. 17 . . . . .	28	
Sept. 24 . . . . .	78	
Oct. 1 . . . . .	58	
Oct. 8 . . . . .	121	
Oct. 22 . . . . .	52	
Oct. 28 . . . . .	70	407
	<hr/>	<hr/>
		1,824

Erased on account of deaths Nov. 1891, to

Feb., 1892 . . . . .	9	
	<hr/>	
Total . . . . .		1,815

*Females*

Total number, 1891 . . . . .	52	
Registered during the year . . . . .	1	
	<hr/>	
		53

Erased on account of

Non-payment of taxes, 1890-91 . . . . .	4	
Removals . . . . .	2	6
	<hr/>	<hr/>
Total . . . . .		47

JURORS DRAWN DURING THE YEAR.

March 3. John H. Atwood.  
Robert Sweet.  
May 26. Aaron Hill, Jr.  
William E. Dwight.  
Oct. 6. Elisha Myrick,  
Lewis C. Hoyt.

## MILITARY LIST.

Number of persons liable to military  
duty, as reported by the Assessors, 1,605

## DOG LICENSES,

Total number issued . . . . .	506
For males . . . . .	447
For females . . . . .	56
	<hr/>
	503
To breeders of dogs . . . . .	3
	<hr/>
	506
Breeders' licenses issued to	
Eugene H. Moore . . . . .	\$50 00
F. W. Chapman . . . . .	25 00
E. B. Sears . . . . .	50 00
	<hr/>
Paid County Treasurer :	
June 2, 1891 . . . . .	\$647 60
Nov. 11, 1891 . . . . .	550 20
	<hr/>
	\$1,197 80

Respectfully submitted,

JOHN LARRABEE, *Town Clerk.*

REPORT OF THE BOARD

OF

WATER COMMISSIONERS

OF THE

TOWN OF MELROSE, MASS.,

FOR THE

FINANCIAL YEAR ENDING DECEMBER 31, 1891.

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MELROSE:

DUNTON & POTTER, PRINTERS, REPORTER OFFICE.

1892.

# TOWN OF MELROSE, MASS.

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## WATER DEPARTMENT.

COMMISSIONERS:

WILBUR D. FISKE.

WILLIAM H. MILLER.

GEORGE J. BICKNELL.

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REGISTRAR,

ELBRIDGE H. GOSS.

---

SUPERINTENDENT,

JAMES W. RILEY.

---

PUMPING STATION,

CHARLES F. CHURCHILL, Engineer.

# REPORT OF THE WATER COMMISSIONERS

FOR THE YEAR ENDING DECEMBER 31, 1891.

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The twenty-second annual report of the Board of Water Commissioners of the town of Melrose, also reports of Water Registrar and Superintendent, are hereby respectfully submitted.

## STREET MAINS.

The demands for laying main and service pipes during the year has largely exceeded that of any previous year, and is as follows:

Number of feet of main pipe laid in 1891,	14,130
“ “ service “ “	17,929
“ new hydrants set “	14
“ “ gates “ “	22

A detailed statement of dimensions, location and cost of the above will be found in the appended report.

## MAINTENANCE.

The maintenance account has been increased by the relocation and substitution of the sixteen inch iron pipe over Spot pond brook on Wyoming avenue, also over Ell pond brook at Wyoming station, also by the relaying of the fourteen inch pipe over Ell pond brook on Main street, necessitated by the widening of said brooks as voted by the town.



## SPOT POND.

Owing to the increased consumption of water, and the limited fall of rain during the year, the supply of water has been largely reduced, the lowest point reached being on the 23rd of December, at which time it was seven feet below high water mark. During this low stage of water, the joint water boards have removed the drift wood and other debris around the borders of the pond, and have also dredged and enlarged some of the inlets to the pond, which will naturally increase the quantity and improve the quality of the water.

At an adjourned meeting Nov. 19, 1891, a report submitted by the Water Commissioners relating to water rates and the income therefrom, with recommendations, was unanimously accepted.

## WATER RATES.

*Dwelling Houses.*

	PER YEAR.
Occupied by one family, for the first faucet .	\$5 00
For each additional faucet to be used for the same family . . . . .	1 00
For the first water-closet . . . . .	4 00
For each additional water-closet . . . . .	2 00
For first bath-tub . . . . .	4 00
For each additional bath-tub . . . . .	2 00

Provided that no private house occupied by one family shall pay more than \$20 per year, not including stable or hose.

When a house is occupied by more than one family and they use the same fixtures the charge shall be as follows for each additional family.

For first faucet . . . . .	\$4 00
For additional faucets, each . . . . .	1 00
For bath-tub . . . . .	3 00
For water-closet . . . . .	3 00

When a house is occupied by more than one family, the highest rates will be charged for each family having water carried into their part of the house.

When two faucets are used, one for hot and one for cold water, both emptying into one vessel, but one charge will be made for both.

### *Boarding Houses.*

Houses containing six or more boarders shall be rated as boarding houses.

For the first faucet . . . . .	9 00
For each additional faucet . . . . .	1 00
For water-closet and bath-tub when used for boarders . . . . .	5 00
For each additional water-closet or bath-tub when in use for boarders . . . . .	3 00

### *Offices, Stores, Business Places, Etc., Not Otherwise Rated.*

For first faucet . . . . .	6 00
For each additional faucet . . . . .	1 00
For each water-closet or urinal . . . . .	4 00

### *Special Store Rates.*

Bakers, manufacturing confectioners and restaurants, druggists and public halls.

For first faucet . . . . .	8 00
For each additional faucet . . . . .	1 00
For tumbler-washers, each . . . . .	3 00

### *Fish Markets.*

For first faucet . . . . .	9 00
For each additional faucet . . . . .	3 00

N. B. Special rates may be fixed by the Commissioners in any exceptional case.

*Livery Stables, Greenhouses and Public Laundries.*

Meters shall be used, or special contracts may be made with the Water Commissioners.

*Private Stables.*

For each horse	.	.	.	.	.	.	.	\$3 00
For each cow	.	.	.	.	.	.	.	1 00

*Truck and Cart Stables,*

And all other stables not metered where horses are kept for strictly business purposes.

For first horse	.	.	.	.	.	.	.	\$ 3 00
For each additional horse	.	.	.	.	.	.	.	1 50

The above includes water for washing carriages, wagons, etc.

N. B. All horses kept on the premises shall be rated as consuming Spot pond water, whether water is carried to the stable or not.

*Hotels.*

For first faucet	.	.	.	.	.	.	.	\$12 00
For each additional faucet	.	.	.	.	.	.	.	1 00
For each bath-tub	.	.	.	.	.	.	.	5 00
For each water-closet	.	.	.	.	.	.	.	5 00

Or, meters may be used at the discretion of the Commissioners.

*Public Bath Rooms.*

For first bath-tub	.	.	.	.	.	.	.	\$10 00
For each additional bath-tub	.	.	.	.	.	.	.	5 00
For each water-closet	.	.	.	.	.	.	.	5 00

*Hose.*

Water used through hose \$3, and use of same to be restricted to two hours per day by the Water Commissioners; but if the Board shall feel compelled, through scarcity of water, to prohibit the use of hose prior to August 1st, a refund of \$1 shall be made after October 1st, on application to the Commissioners, provided such prohibition shall extend over a period of two months.

*Steam Engines and Motors.*

For the use of steam engines and motors, meters shall be used or special contract may be made with the Water Commissioners.

*Building Purposes.*

For each cask of lime or cement used, based on estimate of architect or contractor, .05, provided that no charge for any such building shall be less than \$3. For ordinary additions and repairs there will be no charge. For extraordinary additions or repairs the rate shall be assessed by the Board. The above rates for water for building purposes, which are to be paid in advance, includes the charge for "turning on" and "shutting off" water, and no allowance will be made if water is obtained from other premises.

*Rate by Meter.*

For each hundred gallons two and one-half cents; every meter will be subject to a minimum charge of fifteen dollars.

*Ornamental Fountains and Artificial Ponds*

will be allowed only on application to, and at rates assessed by the Commissioners. In any case not herein provided for the Commissioners shall fix the price or rent.

*Offs and Ons.*

The charge for "shutting off" and "turning on" shall be \$1.00, except in cases of non-payment otherwise provided for.

*Discount.*

Discount of 5 per cent. on all payments for water rates paid previous to or by March 1st of each year.

## SPECIAL TOWN MEETING, JULY 7, 1891.

At a special town meeting held July 7th, 1891, under Articles 2, 3 and 4, in the warrant which were as follows, viz:

Art. 2. To see what action the town will take upon a report of the Water Commissioners, recommending that the town take in conjunction with the city of Malden and town of Medford, certain lands, water and water rights about Spot pond and provide for settlement of claims and make appropriation therefor as recommended by the Water Commissioners.

Art. 3. To see if the town will vote to purchase in conjunction with the city of Malden, of the town of Medford, two undivided third parts of certain lots of land located on the shore of Spot pond.

Art. 4. To see if the town will authorize the Water Commissioners to enter into an agreement with the city of Malden and town of Medford respecting the use of the parcels of land held in severalty by the three municipalities on the borders of Spot pond.

It was voted, in conformity, to the report of the Board of Water Commissioners "That the town of Melrose, the city of Malden and the town of Medford concurring in the exercise of the power granted to said city and said towns, by Chapter 160 of the Acts of the Commonwealth of Massa-

chusetts, of the year 1870, and by Chapter 388 of the Acts of the year 1887 enabling said city and towns in conjunction to take by purchase or otherwise, lands, water and water rights for the purposes specified in Section 2 of said Chapter 160 and in said Chapter 388, by virtue of said power and in the exercise thereof in concurrence with said city of Malden and town of Medford doth hereby join said city of Malden and town of Medford in taking and holding for the purposes specified as aforesaid, and in conjunction with said city of Malden and town of Medford by virtue of the power so granted and for the purposes specified in Section 2 of said Chapter 160, and in said Chapter 388, doth hereby take and will hold the following described lands, water and water rights, to wit:—57 descriptions of lots of land, all of which are duly entered upon the Town Records, Book 3, pages 422-462 inclusive, and in the Middlesex Registry of Deeds (So. Dist.) reference being made to plans, also entered for record in said registry."

Exceptions :

Reserving and excepting so much of each of the lots of land above described as is embraced within the limits of any town way or county road.

And the Water Commissioners of the town of Melrose are hereby authorized and directed in conjunction with the Water Commissioners of said city of Malden and town of Medford to file in the Registry of Deeds for the Southern District of the County of Middlesex within sixty days from the taking of said lands, water and water rights, a description of the lands, water and water rights so taken, sufficiently accurate for identifying the same.

Standing of vote upon the above. Total number of persons voting, 197. Aff. 153, neg. 44. More than two-thirds of the number of votes being affirmative, it was declared a vote by the Moderator, as stated.

*Voted*, That the Water Commissioners of the town of Melrose in conjunction with the Water Commissioners of the city of Malden and town of Medford be and hereby are given full power to purchase in behalf of said town of Melrose, for said city and towns, any or all of the land in the vicinity of Spot pond this day taken by said town of Melrose in conjunction with said city of Malden and said town of Medford at such price as may seem best to said Water Commissioners or to settle the damages for the taking of any or all of the land thus taken on such terms as may seem best to said Commissioners, the expenses of such purchases or settlements to be borne equally by said town of Melrose and by said city of Malden and town of Medford, and the sum of twenty thousand dollars is hereby appropriated for said above purposes, said sum to be borrowed and funded in bonds to be issued for that purpose, and the Treasurer of the town is authorized to borrow in behalf of the town said sum of money pending the issuance of bonds as aforesaid.

Vote, affirmative, 123 ; negative, 23.

Article 3.

*Voted*, Unanimously, that the Water Commissioners of the town of Melrose, in conjunction with the Water Commissioners of the city of Malden, are hereby authorized on behalf of the said town of Melrose to purchase in conjunction with the said city of Malden, two undivided third parts of land, water and water rights on the shore of Spot pond hereinafter described, owned by the town of Medford, so that said land, water and water rights shall be held in common by said city of Malden and said towns of Melrose and Medford for the purposes specified in Chapter 160 of the Acts of the Commonwealth of Massachusetts of the year 1870 and in Chapter 388 of the year 1887 ; and in the deed of purchase it may be provided that the town of Medford may use and occupy a strip of said land at some point be-



tween the present Gate House lot of said town of Medford and Forest street in said Medford not exceeding 300 feet in width, for high service station and appurtenances.

For a description of land see Town Records Book, 3 pages, 464-466 inclusive.

Article 4. Use of land.

*Voted*, That the Water Commissioners of the town of Melrose are hereby authorized to enter into such agreement with the city of Malden and town of Medford respecting the lands on the shores of Spot pond occupied by each of the three municipalities in severalty for gate house and pumping station as they shall deem desirable.

At an adjourned meeting, Nov. 19, 1891, under Article 13, Authority to Water Commissioners.

*Voted* That the Board of Water Commissioners be authorized to apply, in conjunction with the city of Malden and the town of Medford, to the General Court for the grant and relinquishment to the said city and towns of all the right and control which the Commonwealth has in the great pond known as Spot pond, for the better guarding and protecting of its waters from pollution and intrusion, and to take such action for securing of said grant as they may deem effective.

Acting in compliance with the above vote, the joint boards have presented a petition to the General Court asking for the grant and relinquishment to the said city and towns of all the right and control which the Commonwealth has in the great pond known as Spot pond.

*Also voted*, That the Finance Committee be instructed to include in their appropriations the following items as submitted by the Board of Water Commissioners, viz. : 16 hydrants, at \$20 per hydrant ; ornamental and drinking fountains, \$200 ; public buildings at regular rates ; watering streets, \$200.



*Recommendations.*

That the town appropriate the necessary sums recommended by the Water Commissioners at the adjourned meeting, held Nov. 19, 1891, under Article 12, as follows : \$20 for each hydrant in the town, ornamental and drinking fountains, \$200 ; public buildings at regular rates ; watering streets to be left to the discretion of the Board of Water Commissioners.

*Also*, The ten-inch main on Washington street should be extended to the eight-inch pipe at the rubber works, a distance of about 4,000 feet, thus completing the circuit and obviating the necessity of applying to Malden to supply us with water in the event of accident to the 16 inch main on Wyoming avenue.

Respectfully submitted,

WILBUR D. FISKE,

WILLIAM H. MILLER,

GEORGE J. BICKNELL,

*Commissioners.*

# REPORT OF WATER REGISTRAR

OF THE TOWN OF MELROSE FOR THE YEAR 1891.

*To the Board of Water Commissioners:*

GENTLEMEN:— I have the honor to submit the following report for the year 1891:

## RECEIPTS.

Received for water rates . . . . .	\$27,879 15
“ “ service pipes . . . . .	1,904 40
“ “ stock . . . . .	18 00
“ “ returned insurance . . . . .	30 53
	<hr/>
	\$29,832 08
Paid George Newhall, Treasurer . . . . .	\$29,752 50
Refunded . . . . .	79 58
	<hr/>
	\$29,832 08

## DISBURSEMENTS.

Bills approved by Commissioners and paid by the Town Treasurer.

Stock account: stock purchased . . . . .	\$9,511 37
“ “ labor on same . . . . .	640 04
Maintenance account: sundry bills, labor and salaries . . . . .	10,873 37
Construction account: labor on construction and street services . . . . .	4,035 28
	<hr/>
Total, . . . . .	\$25,060 06
Paid on account of the \$20,000 appropriation for Spot pond improvement $\frac{1}{3}$ of amount expended during 1891 as per account rendered by the city of Malden . . . . .	\$440 54

## STATEMENT FOR SINKING FUND.

## INCOME.

From water rates . . . . .	\$27,879	15	
“ return premium . . . . .	30	53	27,909 68
Less amount refunded . . . . .			79 58
			<hr/>
			\$27,830 10

## LESS.

Interest on bonds (from Town Treasurer's books) . . . . .	\$8,360	00	
Maintenance : sundry bills, laborers, and salaries . . . . .	10,873	37	
Maintenance : stock used . . . . .	1,269	71	20,503 08
			<hr/>
Surplus . . . . .			\$7,327 02

## MAINTENANCE.

Geo. F. King & Merrill, stationery . . . . .	\$10	12	
Bugbee & Barrett, sundry groceries . . . . .	22	82	
Perry Bros., picks, barrows, etc. . . . .	38	81	
S. E. Benson, coal . . . . .	1,945	99	
“ “ & Co., coal . . . . .	306	78	
I. C. Weeks, oil . . . . .	18	92	
Phillips & Hodgdon, hay and oats . . . . .	355	28	
Edson Mfg. Co., suction hose, etc. . . . .	25	79	
N. E. Tel. & Tel. Co. . . . .	127	45	
C. W. Higgins, services as appraiser . . . . .	100	00	
City of Malden, $\frac{1}{3}$ expenses at Spot pond for 1890 . . . . .	131	50	
Wm. Morss, carpentering . . . . .	163	71	
Charles F. Churchill, engineer . . . . .	900	00	
J. W. Riley, superintendent . . . . .	1,100	00	
			<hr/>
<i>Amount carried forward, . . . . .</i>	\$5,247	17	

<i>Amount brought forward,</i>	\$5,247 17
E. H. Goss, registrar	800 00
C. W. Ellison, stamps	34 00
R. F. Spear & Co., envelopes	2 50
James Marshall, coal, wood and gravel	53 76
C. A. Whittemore & Co., machine oil	40 87
J. B. Johnson, repairs	20 65
Boston Rubber Shoe Co., boots	19 40
Frost & Hawes, pails, salt, oil, etc.	20 27
Charles W. Badger, varnish	91 72
Eastern Supply Co., packing	4 20
Melrose Journal, printing	5 50
Geo. H. Mason & Co., lanterns, etc.	10 51
Ames Plow Co., axes, shovels, trowels, etc.	42 07
Engineer News Pub. Co., annual	1 00
Conant Rubber Co., mittens	8 25
Mary D. Ellis, rent of stable	60 00
Addison Lane, rent of shop	120 00
F. A. H. Norcross, expressing	23 55
T. McCoubry, horse-shoeing and repairs	154 89
N. E. Machine Co., dies, punches, etc.	32 35
Geo. H. Sampson, forcite; caps and fuses	33 60
American Express Co.	2 05
Dr. H. C. Perry, vet. surgeon	4 50
Dunton & Potter, printing reports, etc.	51 00
Carpenter & Co., finish	2 73
Braman, Dow & Co., fittings	16 04
J. E. Ricker, sundries	1 15
Geo. H. Mason & Co., globes, burners, etc.	4 95
Wm. N. Hughes, printing	2 25
J. T. Freeman & Co., hinge cocks, etc.	3 50
John Larrabee, alcohol and witchhazel	75

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*Amount carried forward,* \$6,915 18



<i>Amount brought forward,</i>	\$7,763 16
H. R. Worthington, repairing meter	1 12
R. J. Hiatt, labor and boat hire	7 25
Geo. E. Winslow, indicator supplies	7 60
L. B. Wilder & Co., printing	28 75
Burrell & Swett, axes, etc.	3 50
Page Belting Co., pomade	4 50
Wilbur D. Fiske, commissioner	50 00
Wm. H. Miller, "	50 00
George J. Bicknell, "	50 00
City of Malden, $\frac{1}{3}$ of amount expended in clearing pond	293 06
Thomas Hollis, soda ash	2 00
Larrabee & Stearns, sundries	1 75
Sundry laborers	2,610 68
From stock account: stock for repairing leaks, service pipe, resetting hydrants, lowering boxes, repairs at pumping station, etc.	110 1,269 81
Total,	\$12,143 08

## CONSTRUCTION.

Cost of construction as per report Jan. 1, 1891	\$279,243 70
Cost of stock for construction during the year 1891	5,722 45
Paid sundry laborers on same	2,994 33
Cost of stock for street services	1,222 86
Paid sundry laborers on same	1,040 90
Cost of works January 1, 1892	\$290,224 24

## STOCK.

Stock on hand Jan. 1, 1891 . . . . . \$1,770 41

*Purchased of*

Chadwick Lead Works, pig lead and pipe . . . . .	379 71
Osgood & Hart, castings . . . . .	142 44
Davis & Farnum Mfg. Co., castings . . . . .	2,157 70
King & Goddard, pipe, etc. . . . .	42 80
W. H. Ward & Co., corporation bands, etc. . . . .	270 00
Fuller, Dana & Fitz, sheet-iron, rivets, etc. . . . .	1,778 55
Scrannage Bros. & Cook, stops . . . . .	503 10
B. & M. R. R. Co., freight . . . . .	123 41
J. H. Cunningham, enamelled pipe and fittings . . . . .	1,036 04
Chapman Valve Mfg. Co., hydrants, gates, etc. . . . .	904 93
Geo. M. Winslow & Co., cement . . . . .	1,236 20
Eastman's express . . . . .	105 15
Holyoke Iron Works, hydrants . . . . .	60 10
H. L. Goldsmith, sand . . . . .	2 10
Norcross express . . . . .	12 25
George H. Sampson, forcite . . . . .	11 65
White & Ainsworth, stops . . . . .	5 80
Sewall & Day Cordage Co., packing . . . . .	6 83
Robert Philpot, sand . . . . .	102 88
F. H. Holton & Co., corporation bands, etc. . . . .	192 90
New England Water Pipe Co., pipe . . . . .	356 13
Whittier Machine Co., gate . . . . .	73 50
Harry Hunt, corporation bands . . . . .	13 00
Paid sundry laborers on stock . . . . .	640 04

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*Amount carried forward,* . . . . . \$11,927 62

*Amount brought forward,* . . . . \$11,927 62

CR.

## STOCK USED.

For maintenance . . . . .	\$1,269 71	
For construction . . . . .	6,945 31	
For inside services . . . . .	2,221 52	
For cash . . . . .	18 00	10,454 54

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Stock on hand January 1, 1892 . . . . .	\$1,473 08
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Number of water takers . . . . .	2,164
“ “ families . . . . .	2,038
“ “ stores and shops . . . . .	95
“ “ motors . . . . .	13
“ “ boarding houses . . . . .	7
“ “ churches . . . . .	6
“ “ greenhouses . . . . .	6
“ “ horses . . . . .	330
“ “ cows . . . . .	71

Respectfully submitted,

ELBRIDGE H. GOSS,

*Water Registrar.*



# REPORT OF THE SUPERINTENDENT.

*To the Water Commissioners :*

*Gentlemen :—*In accordance with the usual custom, I herewith submit my annual report, giving in detail the operations of this department.

## THE POND.

The following record will show the condition of the pond during the year. The lowest point Dec. 20, and over the dam but once during the year and that in February.

## RECORD.

*Rise and fall of pond in 1891.*

Jan.	1	21½ in. below high water mark.			
	10	20½ in.	"	"	"
	20	15 in.	"	"	"
	30	6 in.	"	"	"
Feb.	10	Full pond.			
	20	2¼ in. above high water mark.			
	28	3 in.	"	"	"
Mar.	10	3½ in.	"	"	"
	20	3½ in.	"	"	"
	30	2 in.	"	"	"
April	10	1¾ in.	"	"	"
	20	1 in.	"	"	"
	30	2¼ in. below	"	"	"
May	10	5⅞ in.	"	"	"
	20	8¼ in.	"	"	"
	30	11 in.	"	"	"

June	10	15	in. below high water mark.		
	20	17 $\frac{3}{4}$	in.	"	"
	30	19 $\frac{1}{2}$	in.	"	"
July	10	23 $\frac{3}{4}$	in.	"	"
	20	28	in.	"	"
	30	32 $\frac{1}{2}$	in.	"	"
Aug.	10	35 $\frac{3}{4}$	in.	"	"
	20	41	in.	"	"
	30	46	in.	"	"
Sept.	10	47 $\frac{1}{2}$	in.	"	"
	20	52 $\frac{1}{2}$	in.	"	"
	30	57	in.	"	"
Oct.	10	59 $\frac{1}{2}$	in.	"	"
	20	63	in.	"	"
	30	69	in.	"	"
Nov.	10	73 $\frac{3}{4}$	in.	"	"
	20	77 $\frac{1}{2}$	in.	"	"
	30	77 $\frac{1}{4}$	in.	"	"
Dec.	10	81 $\frac{1}{4}$	in.	"	"
	20	83 $\frac{3}{8}$	in.	"	"
	30	81	in.	"	"

## COMPARATIVE RECORD.

*Showing the lowest points below high-water mark to which the pond has been drawn since 1874.*

1874—Lowest point, 43 inches, Dec. 7.

1875—Lowest point, 61 inches, Feb. 22. Pond full, June 23.

Next lowest point, 33 inches, Nov. 10.

1876—Lowest point, 37 inches, Nov. 6. Pond full, March 25.

1877—Lowest point, 33 inches, Sept. 30. Pond full, March 15.

1878—Lowest point, 27 1-2 inches, Nov. 13. Pond full Jan. 15. Pond full, second time, Dec. 14.

- 1879—Lowest point, 45 inches, Dec. 20. Pond full and running over at waste-way from Jan. 1 to May 20.
- 1880—Lowest point, 63 1-4 inches, Dec. 30; highest point May 10; being then 12 inches below high-water mark.
- 1881—Lowest point, 65 inches, Jan. 8, at which time the water was down to the top of the pipe at the gate-house; commenced pumping, and continued until Jan. 22. The pump was started again Feb. 6, and run until Feb. 13. Pond full and running over from March 22 to April 30. Next lowest point 32 inches, Dec. 22.
- 1882—Lowest point, 37 1-2 inches, Dec. 21. Pond full and running over at waste-way from March 3 to April 3.
- 1883—Lowest point, 82 inches, Dec. 30. The highest point reached was 15 inches below high-water mark, May 30. Commenced pumping Sept. 23, and continued to pump to Dec. 31.
- 1884—Lowest point, 82 1-2 inches, Jan. 1. Pond full and running over from April 16 to May 10. Next lowest point 40 1-4 inches, Nov. 23.
- 1885—Lowest point, 42 1-2 inches, Oct. 31. The highest point reached was on May 24, when it was 2 1-2 inches below high-water mark.
- 1886—Lowest point, 55 inches, Nov. 10. Full pond, running over at water-way from Feb. 14, to April 26.
- 1887—Lowest point, 41 3-4 inches, Dec. 10. Full pond from March 20 to May 10.
- 1888—Lowest point, 38 inches, Feb. 17. Full pond from April 3 to June 2, and from Nov. 30 to Dec. 31.
- 1889—Lowest point, 14 3-4 inches, Oct. 20. Full pond, running over water-way Dec. 10.
- 1890—Lowest point, 39 inches, Oct. 10. Full pond, running over water-way, Jan. 10 to 30, March 10 to April 10, and May 10 to 30.
- 1891—Lowest point, 83 3-4 inches, Dec. 20. Full pond, running over water-way, Feb. 6 to April 26.

## TABLE SHOWING LEVELS BELOW SPOT POND ROLLWAY.

Surveys made in 1884 by PERCY M. BLAKE, C. E., and  
GEORGE H. BISHOP, C. E.

Below Rollway.	
Feet.	
	Reservoir 98 feet above rollway.
0.00	Rollway.
5.61	Lowest point on pipe line between Woodland avenue and Ravine road.
22.39	Summit of Ravine road, near spring barrel in ground.
83.00	Northwest corner Ravine road and Washington street.
92.20	Intersection of Ravine road and Wyoming avenue.
97.19	Intersection of Trenton street and Wyoming avenue.
98.53	West rail Boston and Maine Railroad at Wyoming station.
0.37	Piazza floor of W. A. Smith's house on Wyoming hill.
99.62	Intersection of Berwick street and Wyoming avenue.
91.56	Corner Main and Foster streets.
86.06	Fall from rollway to top of underpinning of Town Hall.
32.00	Sill of lower window of J. T. Chase's house, Cedar Park.
92.17	Intersection of Main and Essex streets.
41.09	Intersection of Upham street and Bellevue avenue.
13.78	Sill of Upham street schoolhouse.
18.00	In front of G. W. Chipman's house on extension of Tremont street.
3.00	Top of hill, opposite G. W. Chipman's house.
73.00	Track of Boston & Maine Railroad, 100 feet north of Frank- lin street.
18.00	Foundation of P. W. Curry's house, Orris street.
3.16	Doleful pond above Spot pond, Nov. 13, 1884.

## HYDRANTS.

The hydrants have been thoroughly examined, cleaned, oiled and painted.

Fourteen new ones have been added and located as follows :

One on Rowe street, near Beverly street.

One on cor. Mystic and Glen avenues.

Two on Park street.

Two on Orris street extension.

One on Lebanon street, near Forest.

One on Main street, on Reading Hill, near Wakefield line.

One on Washington street, near Wm. Scrannage.

One on Walton Park, near South avenue.

One on Sargent street, near Briggs street.

One on E. Emerson street.

## 21 GATES SET IN 1891.

One 4-inch on Rowe street.

One 6-inch on Park street.

One 4-inch on Orris avenue.

One 6-inch on Whittier street.

One 4-inch on Walton Park extension.

Two 4-inch on Malvern street.

One 6-inch on Sanford street.

One 4-inch on Washington street.

One 6-inch on Florence street extension.

One 6-inch on Tappan street.

One 4-inch on Highland avenue extension.

One 6-inch on Mystic avenue.

One 4-inch on Mystic avenue.

One 6-inch on Russell and Glen streets.

Three 4-inch on Linwood avenue.

One 6-inch on Lebanon street.

Two 4-inch on Lebanon street.

## PUMPING STATION.

The buildings are in good order. The pumps and boilers are in good repair, and have been well kept. Expenses for repairs have been slight the past year, the engineer having done the work required.

## FURNITURE, STOCK, &amp;C., ON HAND JAN. 1, 1892.

Stock on hand	.	.	.	.	.	.	\$1,473 08
Office furniture	.	.	.	.	.	.	450 00
Tools and fixtures at pumping station	.	.	.	.	.	.	100 00
Tools and fixtures at shop	.	.	.	.	.	.	750 00
Horses, wagons, harnesses, robes, blankets, etc.	.	.	.	.	.	.	800 00

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\$3,573 08

Respectfully submitted,

JAMES W. RILEY,  
Superintendent.

TOTAL AMOUNT AND LOCATION OF MAIN AND DISTRIBUTING PIPES  
TO PRESENT TIME.

STREETS.	FEET OF PIPE.								Hyd'ls.	GATES.				
	16-in.	14-in.	12-in.	10-in.	8-in.	6-in.	4-in.	2-in.		16-in.	12-in.	10-in.	8-in.	6-in.
Adams Street.....						340			1					1
Adams Place.....							160							
Albion.....							631		1					1
Allen Place.....								138						1
Ashland.....							2,065		3				4	
Auburn.....							372							1
Avon.....							422							1
Baxter.....						1,181	494		3				2	1
Battery Place.....								150						
Batchelder.....							834		1				2	
Borneo.....						924			2				1	
Bellevue Avenue..						1,416	1,026		4				2	
Beverly.....						204	100							
Botolph.....						232	847		2				2	2
Belmont.....							376							1
Berwick.....							1,226½		1					2
Brazil.....							1,115		2					2
Cedar Park.....							1,206½	595	2					2
Charles.....							335		1					
Chestnut.....							817		1					2
Circuit.....							438							2
Cleveland.....							1,065		1					1
Clifton Park.....							390							1
Crystal.....						450								
Cutter.....							338						1	1
Cottage.....							1,142	193	2					2
Chestnut Park.....							226		1					
Dell Avenue.....							1,190							1
Dill's Court.....							360		1					1
East.....							534							1
East Russell.....						448								1
Eastman Place.....					300									1
Ellsworth Avenue								314						
Elm.....							1,057		1					1
Emerald.....							508							2
Emerson Place.....								251						1
Emerson.....						1,627½	3,987		7				2	4
Essex.....							1,890		3					2
Felton Place.....								245						
Fifth.....							934							3
First.....						1,995			3				2	
Florence.....						30	1,340½		1					3
Foster.....						682	1,470½		2				1	2
Franklin.....						3,452	1,163		4				2	2
Garden.....							326		1					
Gooch.....							657							1
Glen.....							84							1
Goodyear Avenue					1,235		398		4					1
Green.....						2,700			3				2	
Greenwood.....							1,263		1					2
Grove.....					87	1,922	1,862½		4				1	1
Grundy Place.....								202						1
Herbert.....							220	158½						1
High.....							376	600	1					1
Highland Avenue.							406	250					2	
Hillside Avenue..							337	291						1
Holbrook Court ..						250								1
Howie Court.....							210							
Howard.....							922	383	1					2
Hurd.....							768							1
Ingalls Court.....								209						
Irving.....							387							1
Jefts.....							267							1
Lake Avenue.....							1,230		1					2
Lebanon.....						2,630	3,546		3					1
Linden.....						159		200						1
Linden Place.....								286						
Lin'd Ave& Lynde						774	3,776		3					5
Lynde Place.....							350		1					2
Main.....	3000	4010				2,478	1,272	701	11	2				3
Malvern.....						850			1					2
Maple and Poplar.							2,265½		2					3
Melrose.....							2,449½		2					5
Melrose Place.....							673							1



TOTAL AMOUNT AND LOCATION OF MAIN AND DISTRIBUTING PIPES  
TO PRESENT TIME.—Continued.

STREETS.	FEET OF PIPE.								Hyd'ls.	GATES.					
	16-in.	14-in.	12-in.	10-in.	8-in.	6-in.	4-in.	2-in.		16-in.	12-in.	10-in.	8-in.	4-in.	2-in.
Mt. Vernon.....							551		1					1	
Mt. Vernon Place							224							1	
Myrtle.....							2,230		3					6	
My'tic & Glen Ave					310		202		1				1	1	
Ninth.....								255							1
North Avenue...					310		202							1	
Oakland.....							1,161		1					2	
Orient.....							1,047		1				1		
Orient Place.....					263			184							1
Orris.....					1,017		1,268							4	
Otis.....								780							
Panama.....						112									
Para.....						268									
Park.....					1,037		4		2				1		
Perkins.....							236							1	
Pine.....							338		1					1	
Pleasant.....						186		1,125	1						1
Porter.....						779	2,514½		4					2	
Pond to Wy'g Ave	3810									2					
Pratt.....							378		1					1	
Pump to int'ection			3032						2	2					
Prospect.....							1,026		1					1	
Rendall Place....								170							
Reservoir.....		96													
Rowe.....						63	1,331	552	3					4	1
Res.to Ravine R'd			1370							2					
Russell.....							706							1	
Sanford.....						816	6		1				1		
Sargent.....						485	900		2				1	1	
School.....								495							
Second.....						2,793			4					1	
Seventh.....								288							1
Short.....							216							2	
Sixth.....							810							3	
Stevens Place....							110	216							
Summer.....							961		2					2	
Summit Avenue...							442		1					1	
Suction.....			230												
Sylvan.....						320									
Tappan.....						280	230	521	36				1	1	1
Tenth.....							419							2	
Third.....						130	371	247					1	2	1
Tremont.....							3,180	500	3					4	1
Trenton.....						1,223	1,331½		2				2	2	
Tibbetts Place...							144							1	
Union.....							673							2	
Upham.....							5,581		6					3	
Vine.....							691							2	
Vinton.....						4,817½	436		7				4		
Walnut.....							187½							1	
Walton Park.....							1,447		3					1	
Warren.....							1,342		2					2	
Warwick Road...							86								
Washington.....				960	840		3,025		4		2			4	
Waverly Place...							690½		1					1	
West Hill.....							158							1	
Whittier.....						292									
Willow.....								663							1
Winter.....							241							1	
Winthrop Place...							520		1						
Winthrop.....							695½							2	
Woodland Ave...							630		1						
Wyoming Ave...	3360						1,396		4	3			1	1	
Waste.....						55	51						3	2	
Youle.....							1,655½		2					1	
Grove, South.....						618							3		
Bellemont, West..							302						1		
Orris, South.....						162							1		
	7170	3096	8642	960	2182	40,373	97,378	10,992½	206	170	5	6	4	2	39

Total length of main and distributing pipes, 31-25-100 miles.

15



# REPORT OF THE Water Loan Sinking Fund Commissioners.

MELROSE, Jan. 1, 1892.

*To the Town of Melrose:*

At the date of our last report, Jan. 1, 1891, there was on hand in

Melrose Savings Bank . . . . .	\$226 09
There has since been received from Water	
Board the surplus of 1890 . . . . .	5,002 76
Received sundry coupons (on bonds since	
bought) and interest from Savings Bank	205 02
	<hr/> \$5,433 87

We have bought five Melrose Water Bonds of 1887, at 104½ and accrued interest . . . \$5,298 33

A full statement will be found in our Treasurer's account, to which we refer.

There is due the Sinking Fund \$7,327.02, being the surplus revenue from Water Board account for the year ending with the date of this report. It will be necessary for the town to make some provision at the March meeting for the payment or refunding of the second issue of Construction Bonds, \$50,000, which falls due Oct. 1, 1892.

Respectfully submitted,

DANIEL RUSSELL,  
ROYAL P. BARRY,  
JOHN W. FARWELL,

*Water Loan Sinking Fund Commissioners.*

REPORT OF THE TRUSTEES

OF THE

# MELROSE PUBLIC LIBRARY

FOR THE

YEAR ENDING DECEMBER 31, 1891.

---

MELROSE:

DUNTON & POTTER, PRINTERS, REPORTER OFFICE.

1892.



TWENTY-FIRST ANNUAL REPORT  
OF THE  
TRUSTEES OF MELROSE PUBLIC LIBRARY,  
FOR THE YEAR ENDING DECEMBER 31, 1891.

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The trustees of the public library respectfully present their twenty-first annual report.

It will be noticed that the number of cards issued to new readers during the year exceeds by more than a hundred the number issued last year, and the number issued during any of the last five years. The number of visitors to the reading room has increased from 11,293 to 13,306. The duty of a public library is to supplement the public schools; it should furnish the means for further education to those who have completed a school course, and offer those who have not had this training and development something to take its place. If our library has done its duty, the increase in circulation and in visitors is a reason for congratulation. Precisely 447 more persons have found it for their interest to use some of the nine thousand volumes; some have sought entertainment, some intellectual development, and some the acquirement of that knowledge by use of which the successful workingman and woman earn a livelihood.

It is a pleasure to record that the number of books rebound is greater than last year. In literature, poetry, fiction, the old books are still the best, and readers are finding it out and establishing friendships with authors, instead of merely getting acquainted with the story. 136 of the new

books are classed as fiction, and of these 30 are juveniles; this leaves 106 volumes of fiction for adults out of the 312 new books added during the year. Attention is directed to this, because it shows that the trustees believe in forming a library which shall be useful and instructive as well as entertaining.

It has been the custom to cut from the weekly papers the printed lists of new books and hang them in the library. Those selecting were obliged to consult these, hung in a poor light, or wait their turn at the written catalogue, always in great request. There was very little chance to look over titles and thus learn what was suited to the taste or needs; and, aside from titles, no knowledge of the contents of the book was to be had. To better this, the trustees agreed to issue a bulletin, and a member of the board volunteered to prepare it. It contains the classified titles, with numbers of all books added from January to July of 1891, and authors' names follow each. Under each name, in smaller type, are the titles of all the books by that author in that class which have been added since the printing of the last supplement in 1888; if the book belongs to a series, the names of all the books of that series follow. Successive bulletins will incorporate into their lists more of the additions and all editions of permanent value since 1888 will in this way be catalogued. The bulletins, if preserved, will form a printed classified catalogue from 1888 to date. Each contains something of special value which will not be repeated. The first has a list of American historical novels, and a list of the best histories of the Civil War, likewise the books added to Good Reading for the Young. The second bulletin, which is now ready for the public, has a classified list of all books added to the Library from July, 1891, to January, 1892. Its special feature is a full list of the reference books in the reading room. The issuing of these bul-

letins was an experiment, and had the work of classifying and arranging not been done by a member of the Board, would not have been thought of. We did not expect the reading public to at once appreciate their usefulness nor recognize the influence they are intended to exert over our large number of young people by showing them there is choice and system in reading as in everything in life. If those interested in books and education will speak of these bulletins and direct attention to the help they afford, it will greatly encourage the trustees in an undertaking which, though warmly welcomed by a few, has met from the many whom it desires to benefit, with the indifference incident to a new departure.

The trustees have endeavored to make the Library more useful to the public schools. Copies of Good Reading for the Young, a printed classified catalogue of carefully selected books, have been loaned to the High, the First and the Second Grammar Schools, and a copy will be loaned to any school asking for it. We want to put our Library into closer relationship with the pupils. We want them to think of it as a help in their study and learn to use it wisely, for their education after leaving school depends largely on their appreciation of the opportunities it offers and their knowledge of how to improve these opportunities.

Some illustrated books on Natural History have been bought, and the librarian is glad to show them. Requests for information will be answered if possible, and lists of books on special subjects will be made out when asked for. The most important work of a library is among the young, and we wish to furnish these fresh, eager minds with the best possible reading.

The last report said that the library was waiting for a building and it was hoped some citizen would see that the

matter was properly brought to the attention of the town. Every year the Town Hall becomes less suited for quiet reading and less desirable for our young people ; and with the yearly increase in population, it must be more noisy and frequented. The rooms were not sufficient for our needs last year and now are more crowded than ever before. This is the twenty-first annual report. The town furnished the funds necessary to establish the library and ever since has generously encouraged its growth. It is to be supposed that its future has been under consideration, when the twenty-one yearly appropriations were made. A building which shall be a permanent home, a place where in the most favorable surroundings it can put forth its best efforts to be useful to the community is now of immediate importance. In the present cramped quarters no thorough classification can be attempted ; we really do not know where a case for a card catalogue could be placed, provided we saw our way clear to make such a catalogue. Your trustees would respectfully recommend that some steps be taken to provide the library, in this the twenty-second year of its existence, with a commodious and well appointed building.

The income of the Horatio Nelson Perkins Fund has been spent in continuing the "Life of Washington," incomplete last year.

The income of the William Emerson Barrett Fund has provided the library with Moore's "Gothic Architecture."

Thanks are returned to the numerous donors of the various books and periodicals which have been sent to the library and reading room during the year, and to the Melrose Journal and Melrose Reporter for printing free of expense the lists of new books.

In compliance with the present state law which requires trustees of Free Public Libraries to be three in number or some multiple of three, the Board of Selectmen and the

Trustees of the Library elected Mr. George E. Munroe as sixth trustee. Beginning with 1893, there will be two vacancies on the Board of Trustees to be filled each year. This year two of the six trustees will be elected for three years, two for two years and two for one year.

The library received from the town last year \$1,000 and the dog tax. The trustees respectfully ask for a like appropriation for the year 1892.

Respectfully submitted in behalf of the Trustees,

MARY L. CHARLES,

*Secretary.*

ELBRIDGE H. GOSS,  
CHARLES C. BARRY,  
CHARLES A. PATCH,  
GEORGE E. MUNROE,  
RUBY F. FARWELL,  
MARY L. CHARLES,

*Trustees.*



STATEMENT OF THE HORATIO NELSON PERKINS FUND,  
JANUARY 1, 1891. TO JANUARY 1. 1892.

CR.

By balance on hand Jan. 1, 1891 . . . .	\$500 90
Interest from Melrose Savings Bank . . .	20 00
	<hr/>
	\$520 90

DR.

To cash paid G. P. Putnam's Sons, books . . .	\$20 00
Balance on hand . . . . .	500 90
	<hr/>
	\$520 90

STATEMENT OF THE WILLIAM EMERSON BARRETT FUND,  
JANUARY 1, 1891. TO JANUARY 1. 1892.

CR.

By balance on hand January 1, 1891 . . . .	\$67 98
Interest from Melrose Savings Bank . . .	2 72
	<hr/>
	\$70 70

DR.

To cash paid for " Gothic Architecture " . . .	\$4 00
Balance on hand . . . . .	66 70
	<hr/>
	\$70 70

## CATALOGUE FUND.

CR.

By balance on hand January 1, 1891 . . . .	\$75 95
Interest from Melrose Savings Bank . . .	1 96
Fines collected by librarian in 1891 . . .	89 71
Sales of Bulletins " " . . . .	10 40
	<hr/>
	\$177 12

DR.

To Cash paid P. O. box, extra help, stationery, stamps, etc. . . . .	24 86
Balance on hand . . . . .	152 26
	<hr/>
	\$177 12

Respectfully submitted,

C. A. PATCH, *Treasurer.*

## STATISTICS FOR 1891.

Number of volumes in library Jan. 1, 1891 . . .	8,719
“ “ “ purchased in 1891 . . . 408	
“ “ “ donated “ “ . . . 47	455
<hr/>	
“ “ “ in library Jan. 1, 1892 . . .	9,174
“ “ persons using library Jan. 1, 1891 . . .	3,738
“ “ cards issued in 1891 . . . 447	
“ “ “ relinquished in 1891 . . . 46	401
<hr/>	
“ “ persons using library Jan. 1, 1892 . . .	4,139
Number of books replaced in 1891 . . .	67
“ “ “ rebound “ “ . . .	905
“ “ magazines bound for library in 1891 . . .	44
Largest number of vols. issued in one day . . .	424
Smallest “ “ “ “ “ “ “ “ . . .	22
Average “ “ “ “ on Mondays . . .	83
“ “ “ “ “ “ Wednesdays . . .	86
“ “ “ “ “ “ Saturdays . . .	301
Whole “ “ “ “ in March . . .	2,873
“ “ “ “ “ “ June . . .	2,555
“ “ “ “ “ “ September . . .	2,408
“ “ “ “ “ “ December . . .	2,601
“ “ “ “ “ “ 1891 . . .	31,425
Number of persons using reading room in 1890 . . .	11,293
“ “ “ “ “ “ “ “ 1891 . . .	13,306
Largest number of visitors in one month . . .	1,454
Smallest “ “ “ “ “ “ “ “ . . .	907
Largest “ “ “ “ “ “ day . . .	151
Books brought from library for use in reading room . . . . .	143

## PERIODICALS IN THE READING ROOM.

American Agriculturist.

American Architect and Building News.

American Naturalist.

Art Amateur.

Art Magazine, Cassell's.

Atlantic Monthly Magazine.

Century Monthly Magazine.

Chamber's Journal.

Chautauquan.

Cottage Hearth . . . . . F. P. Shumway, Jr.

Cosmopolitan . . . . . A Friend

Electric Monthly Magazine.

Electrical Enterprise.

English Mechanic.

Engineering. . . . . W. H. Wiley

Forest and Stream.

Forest and Garden.

Forum.

Gartenlaube.

Harper's Monthly Magazine.

Harper's Bazar.

Harper's Weekly.

Harper's Young People.

Littell's Living Age.

London Illustrated News.

London Punch.

Lippincott's Monthly Magazine . . . . . A Friend

Literary World . . . . . Daniel Jefferson

Magazine of American History.

Nation.

North American Review.

New England Magazine.

Outing Monthly Magazine.

Overland.

Practical Electricity . . . . . Charles A. Patch

Popular Science Monthly.

Scientific American.

Scientific American, Architect and Builder.

Science.

Scribner's Monthly Magazine.

St. Nicholas.

Wide Awake.

PAPERS IN READING ROOM.

Alta California.

Christian Register . . . . . Woman's Aux. Unit. Church

Cincinnati Gazette.

Chicago Inter-Ocean.

Charleston News and Courier.

London Weekly Times.

Louisville Weekly Courier-Journal.

Melrose Journal . . . . . Chas. H. Adams

Melrose Reporter . . . . . Dunton & Potter

National Tribune, G. A. R.

New York Tribune, Weekly.

Pilot.

Springfield Republican, Weekly.

Unity . . . . . Miss C. Mansfield

Woman's Journal . . . . . Mrs. M. A. Livermore

Youth's Companion.

## DONATIONS.

*Pamphlets.*

Number of pamphlets in library, Jan. 1, 1891	.	.	1,227
Annual report of Concord Public Library	.	.	I
“ “ “ Chelsea “ “	.	.	I
“ “ “ Clinton “ “	.	.	I
“ “ “ Hopedale “ “	.	.	I
“ “ “ Lancaster “ “	.	.	I
“ “ “ Leicester “ “	.	.	I
“ “ “ Malden “ “	.	.	I
“ “ “ Manchester “ “ N. H.	.	.	I
“ “ “ Newberry “ “ Chicago	.	.	I
“ “ “ Newton “ “	.	.	I
“ “ “ Salem “ “	.	.	I
“ “ “ Somerville “ “	.	.	I
“ “ “ Springfield “ “	.	.	I
“ “ “ Warren “ “	.	.	I
“ “ “ Watertown “ “	.	.	I
“ “ “ Winchester “ “	.	.	I
“ “ “ Woburn “ “	.	.	I
Official Gazette of the U. S. Patent office	.	.	52
The Tuftonian	.	.	15
Address before the American Banker's Association	.	.	I

1,313

*Books.*

Scribner's Statistical Atlas of United States	S. E. Sewell.
The Chocolate Plant and Its Products	Walter Baker Co.
Sordello's Story,	Melrose Browning Club.
History of Melrose	E. H. Goss.
Public Statutes of Massachusetts.	
Yarmouth, Nova Scotia	George S. Brown.
Free Public Libraries	William E. Barrett.
Public Opinion	Dr. J. E. Sanborn
Twenty-Years Around the World	John Guy Vassar
Popular Biographies of Connecticut	Hartford Insurance Co.
The Galvanic Circuit Investigated Mathematically	Thomas D. Lockwood.

CARRIE M. WORTHEN, *Librarian*

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

TOWN OF MELROSE,

FOR THE

Year Ending December 31, 1891.

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MELROSE:

DUNTON & POTTER, PRINTERS, REPORTER OFFICE

1892.

# SCHOOL COMMITTEE.

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## ORGANIZATION.

JOHN O. NORRIS, Chairman,	. . .	Term Expires 1893.
MRS. S. W. BRADBURY,	. . .	" " 1893.
MRS. A. B. P. WATERHOUSE,	. . .	" " 1892.
* MR. C. F. LORING,	. . .	" " 1892.
MRS. A. K. MILLER,	. . .	" " 1894.
MR. JOHN C. MAKER, Secretary,	. . .	" " 1894.

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## SUB-COMMITTEES.

### *On Accounts.*

MR. LORING.  
MR. MAKER.  
MR. NORRIS.

### *Centre District.*

MRS. MILLER.  
MRS. WATERHOUSE.  
MRS. BRADBURY.

### *On High School.*

MR. NORRIS.  
MRS. BRADBURY.  
MRS. WATERHOUSE.  
MR. LORING.  
MRS. MILLER.  
MR. MAKER.

### *Highlands District.*

MRS. WATERHOUSE.  
MR. LORING.  
MR. MAKER.

### *Wyoming District.*

MR. MAKER.  
MRS. BRADBURY.  
MRS. WATERHOUSE.

### *Text-Books and Course of Study.*

MR. NORRIS.  
MRS. MILLER,  
MR. LORING.

### *Superintendent of Schools,*

GUY C. CHANNELL.

\* Deceased.

# Report of the Superintendent of Schools.

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*Ladies and Gentlemen of the School Committee :*

I herewith submit for your consideration my second annual report concerning the schools and school property of the town of Melrose.

As the past year has been peculiarly one of preparation for the changes in school organization, recommended last year, it is perhaps fitting that this report should open with a brief statement of what has been accomplished in this direction, together with such suggestions as seem pertinent to the future needs of the schools.

## SCHOOL ACCOMMODATIONS AND ORGANIZATION.

Before any plans for the consolidation and regrading of the schools could be made operative additional school accommodations were necessary. During the period covered by this report the needs in this direction have been very largely met by the completion of the Main street building, the Grove street addition and the Upham hill school-house, whereby twelve school rooms have been added to the number previously available. As a result, the following changes in the organization of the schools of the four districts, the Centre, the Grove street, the Lynde street and the Upham Hill have been made.

## CENTRE DISTRICT.

The schools in this district are now provided for in two



four-room school-houses, the Centre and the Mary A. Livermore, which for the purposes of organization are considered as one eight-room building. By this arrangement the old system of grading, with two classes to each room, has been replaced by a complete organization of the eight grades below the High school ; the four lower classes being assigned to the Centre school, the four upper to the Mary A. Livermore.

#### GROVE STREET DISTRICT.

The four-room addition to the Grove street building has been completed and with the alterations and improvements in the old structure an excellent eight room school house has been provided for this section of the town. The rooms are large, well lighted, and provided with a system of heating and ventilation which the State Inspector has pronounced to be as satisfactory as any that has come under his observation.

The completion of this building has been followed by changes in organization similar to those made in the Centre district.

In accordance with the plan initiated at Melrose Highlands in September, 1890, an eighth grade has been established for this district, the pupils of which will occupy one room in the new building. The Lynde st. school house has been abandoned and the pupils transferred to the Grove street school, together with the fifth, sixth and seventh grades from Franklin hall on Essex street. By these changes the three schools are consolidated and a far more satisfactory and efficient organization perfected than has existed in the past.

#### UPHAM HILL DISTRICT.

In the Upham Hill District it has been found necessary to

establish all of the seven lower grades, both to accommodate the pupils of that section and to relieve the over-crowding in the Centre and Grove street schools. Three rooms in this building are thus occupied, with an average of thirty-seven pupils to each room.

#### VINTON STREET DISTRICT.

At the Vinton street school, the single grading has always existed as the building has been used for the four lower grades only, the higher grades being provided for at either the Grove street or the Centre schools.

These changes have brought the pupils of by far the larger part of the town into four schools, under an excellent organization, and with all of the conditions essential to success in their future work largely improved.

The citizens of the town are to be congratulated upon the successful inauguration of a policy which cannot fail to raise the standard of their public schools, and, at the same time, materially reduce the cost of their maintenance.

#### ADDITIONAL ACCOMMODATIONS.

Although twelve additional school rooms have been provided during the last two years, further accommodations are already needed at the Highlands, and in the Vinton street district. This is not surprising when the rapid growth of the town is taken into consideration. The school population is now growing at the rate of two hundred pupils a year, with every prospect of a still larger increase in the future. This means, if even the present rate of increase is maintained, that at least one new four-room building will be required each year, and as it is obviously wiser to anticipate this need than to allow the schools to suffer from its tardy recognition, the facts bearing upon the immediate

wants in these two districts are here presented that through your honorable Board they may come before the citizens of the town for their action.

The following table showing the attendance at each room of the four schools, the Mary A. Livermore, the Centre, the Grove street and the Vinton street, will throw some light upon the question of further accommodations at the Vinton street district :

GRADES.	VINTON ST.	GROVE ST.	CENTRE.	MARY A. LIVERMORE.
1	56	47	41	.....
2	48	44	37	.....
3	44	36	30	.....
4	36	44	39	.....
5	.....	56	.....	53
6	.....	59	.....	41
7	.....	50	.....	49
8	.....	48	.....	47
Totals,	184	384	147	190
Average to a Teacher,	46	48	37	48

The above table reveals the fact that the rooms occupied by the four higher grades are already taxed nearly to their normal seating capacities, while those of the four lower will admit of a material increase in the number of pupils without serious over-crowding.

This is readily accounted for by the fact that while there are twelve rooms for the lower grades there are but eight for the higher.

It is probable, therefore, that when the schools reopen next September, the over-crowding will be almost entirely confined to the fifth, sixth, seventh and eighth grades ; and it is not clear how the classes of those grades, largely augmented as they will be both by promotions and by the increase due to the growth of the town, can be provided for in the eight rooms at the Mary A. Livermore and the Grove street schools. Believing therefore that additional school rooms should be provided for the Vinton street district, that is the section west of the railroad between Perkins street on the north and Russell street on the south, it is recommended that the town at its next annual meeting, be asked to enlarge the Vinton street schoolhouse by the addition of four rooms. This recommendation is entirely in accordance with the policy of this Board as presented to the town in both the regular and special reports of last year ; and its adoption is the final step necessary to the complete reorganization of the schools in Melrose Centre.

#### MELROSE HIGHLANDS.

As predicted in the special report of this committee it was found necessary in Sept., 1891, to open a second room at Green street to relieve the over-crowding in the Franklin street school. There are now, therefore, seven rooms provided for the pupils of that section ; four at the Franklin street, one at the West and two at Green street. As a consequence, the grading of these schools is imperfect and far from satisfactory.

The West and Green street schools are essentially mixed schools, while at the Franklin, the eight grades can only be accommodated by placing two classes in a room.

It is evident that these schools cannot compare favorably with those of the well graded districts, until similar plans for their improvement have been carried into effect. In order to meet this demand and at the same time to accommodate the rapidly increasing school population of that section, additional school rooms should be provided as soon as possible.

As this matter has been referred to a special committee to report at the annual town meeting, any recommendation in relation thereto is unnecessary at this time.

It may not be out of place however to express the hope that in whatever action is taken for the relief of the schools of Melrose Highlands, the plan of this Board for their re-organization may not be lost sight of.

#### COURSES OF STUDY.

In accordance with a recommendation contained in the report of last year, a sub-committee consisting of the Chairman of the Board and the Superintendent was appointed to revise the course of study throughout all the grades. That duty has been carefully attended to, and the revised courses are herewith appended :

# HIGH SCHOOL, COURSES OF STUDY.

GENERAL AND TECHNOLOGY COURSE.			COLLEGE PREPARATORY COURSE.		ENGLISH COURSE.	
YEAR.	STUDIES.	HOURS PER WEEK.	STUDIES.	HOURS PER WEEK.	STUDIES.	HOURS PER WEEK.
FIRST YEAR.	Algebra, English, History, Latin, Botany, Drawing, Music,	4 2 2 5 2 1 1	Algebra, English, History, Latin, Botany, (optional,) Drawing, Music,	4 2 2 5 2 1 1	Algebra, English, History, Latin or French, Botany, Book keeping, Drawing, Music,	4 2 2 5 2 1 1
	Algebra, (Geometry and half,) English, History, Latin, Physics, Drawing, Music,	4 2 2 4 4 1 1	Algebra, (Geometry, and half,) English, Latin, Greek, Drawing, Music,	4 2 2 5 1 1	Algebra, (Geometry and half,) English, History, Latin or French, Physics, Drawing, Music,	4 2 2 4 4 1 1
	Geometry, Latin or French, Chemistry, English, History, Drawing, Music,	4 4 4 2 2 1 1	Geometry, Latin, Greek, English, French or German, Drawing, Music,	4 4 4 2 2 1 1		
	Latin, French or German, English, Geography and Astronomy, Civil Government and Political Economy, History, Drawing,	4 4 4 2 2 1	Latin, Greek, French or German, Physics, (Review Greek and Roman English, and half,) Drawing.	4 4 4 2 2 1	Geometry, English, Geology and Astronomy, Civil Government and Political Economy, History, Drawing,	4 4 4 2 2 1
SECOND YEAR.						
THIRD YEAR.						
FOURTH YEAR.						

## GRAMMAR AND PRIMARY COURSES. OUTLINE COURSE IN ARITHMETIC.

Year or Grade.	Number Work.	Notation.	Fractions.	Decimals.	Mensuration.	Percentage.
I	1 - 10		$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$			
II	(a) 10 - 20 (b) 20 - 50	1 - 50	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{3}$ $\frac{1}{6}$ 1 - 9 1 - 5 1 - 10 1 - 7			
III	(a) 50 - 100 (b) 100 - 1000	$50 - 1,000$ Begin Decimal Notation.	1 - 12 1 - 20 Simple Reductions.	Begin U. S. Money.	Pupils have much practice in measuring lengths.	
IV	1,000 - 1,000,000	1,000 - 1,000,000 Continue Decimal Notation.	Addition, Subtraction, Multiplication and Division. (Objective.) Begin Figure Work.	Addition, Subtraction, Multiplication and Division. (Objective.) Begin Figure Work.	As above.	
V			Completed.	Extend above work.	Simple work in finding areas of surfaces and contents of solids.	Simple work in percentage. Simple examples in interest.
VI			Many problems involving use of Fractions.	Completed.	As above.	Extend above work, Bank discount.
VII			Problems continued.	Problems involving use of Decimals.	Apply to work of carpenters, masons etc.	Percentage completed.
VIII			Review.	Review.	Continue above work and complete the subject.	Applications of Percentage. Commission and Brokerage. Partial Payments. Banking.



## OUTLINE COURSE IN LANGUAGE.

*Oral Language Work in the Primary Grades.*

1. Conversations with the children, in connection with their observation work, furnish excellent means of training in the use of oral language. For example, the pupils may be directed to observe the *birds*, the different kinds, the plumage, the size, and, in the proper season, the nests.

In the class-room, the teacher will talk with the pupils about what they have observed, encouraging them to express themselves in the most familiar way, but at the same time leading them to use short, crisp, well constructed sentences, and natural tones of voice that shall be sweet, clear and distinct.

Such observation work may extend to the flowers, plants, leaves, fruits, stones, etc. ; in fact, to anything that will prove an interesting topic of conversation with the children. (See programme of Science-teaching.)

These conversation lessons should be given daily, and, even in ungraded classes, may be conducted as general exercises.

2. *Good pictures* may be used as subjects of conversation.

(a) Lead the children to see what is in the picture and to tell what they see in response to questions ; (b) by simple suggestions, prompt them to connect a story with the picture. With the younger pupils the teacher's questions should guide and control the movement of the story, else the language may degenerate into loose prattle. Older pupils who have some facility in the use of language, may be allowed greater freedom of expression ; (c) in the higher grades of the primary school, scenes may be described by the teacher, and pupils required to complete the story which



is suggested. Example: Two girls with shopping-bags are entering a store, on the front of which is the sign "Christmas Presents."

3. The reading lessons should be reproduced orally. This exercise is helpful, because it not only furnishes an excellent opportunity for conversation, but also requires the pupil to gather the thought as he reads the lesson.

4. Stories may be read or told to the class, and afterwards reproduced orally in the pupils' own words. These stories should be carefully selected, and, if possible, should furnish the groundwork for instruction in manners and morals.

### *Written Language in the Primary Schools.*

Written work should follow the lines already indicated under the head of "Oral language work"; in fact, oral exercises should be a preparation for written composition.

1. *Copying* letters, words and sentences from the black-board during the first and second year, to give practice in writing and spelling, is the form of written work especially adapted to these grades.

2. *Dictation* exercises during the second and third years furnish the means for teaching spelling, punctuation, and the use of capital letters; also for teaching the *forms* of notes, letters, and other kinds of written compositions.

3. Reproduction of stories which have been told or read to the class.

This exercise requires the pupil to express the thoughts of others in his own words.

4. Stories written from pictures.

This exercise gives play to the imagination, and it also gives practice in expressing one's own thought.

5. Letter-writing.

An oral exercise preceding the letter-writing should give

the necessary preparation by suggesting (1) the topics, and (2) the treatment of each topic.

*Oral Language Work in the Grammar Grades.*

The language-teaching in the grammar grades is merely an extension of work already begun in the primary.

1. Recitations in geography and history should become more strictly topical as the pupils advance in the grades. Information gained from books by the pupils should be given in recitation with less assistance from teachers in the form of questions and hints.

Pupils should be constantly gaining power to grasp the thought of a writer, and to express that thought in well chosen words, without aid from the teacher.

2. Supplementary reading, carefully selected, and adapted to the needs of the pupils, will furnish excellent material for language-training "all along the line" of school work.

After the sixth or seventh year in school, pupils should be able to discard the school Readers, and to use many of the excellent books for young people now published and easily obtained. These books will serve to introduce the children into the field of literature, and to cultivate a taste for the works of our best American and English writers.

3. Carefully selected poems should be studied, committed to memory, and recited.

*Written Language Work in Grammar Schools.*

1. A continuation of the written-work indicated for primary schools, viz. : (a) dictation exercises ; (b) reproduction of stories ; (c) stories from pictures ; (d) letter-writing.

2. *Written exercises* to follow information lessons on important animal, vegetable, and mineral productions ; also on useful industries.

3. *Compositions* for which oral preparation has been made in recitations in geography and history. These exercises may frequently take the form of letters.

4. Studies of poems, to be followed by a paraphrase or by a composition giving the story of the poem.

### *Grammar.*

*Language* is an expression of thought by means of words.

*Grammar* may be defined as a study of the language itself; of its construction, of the inflection of words, and, generally, of the mechanism of the language.

Habit controls our use of language in the expression of thought, *grammar* enables us to test the correctness of the language which we use.

Language may be used correctly by one who is ignorant of its grammar, provided he has been carefully trained to good habits of speaking and writing. Young children, from cultivated families, will often, by their correct use of English, put to shame their elders who have taken considerable rank as students of technical grammar.

The study of grammar belongs to the upper grades of the Grammar school, and to all grades of the High school. In the Grammar schools the essentials of grammar should be learned as aids in speaking and writing; and in the High schools, the nicer distinctions of grammar should be learned in connection with the study of literature.

The following syllabus will indicate, in a general way, the division of the work in grammar :

Seventh Year. 1. The sentence. (a) Subject and predicate; (b) arrangement; (c) declarative, interrogative and imperative; (d) compellatives.

2. (a) The parts of speech; uses in construction of sentences; (b) adjective and adverbial phrases and clauses; (c) analysis of simple, compound, and complex sentences; (d) punctuation.

Eighth Year. (1) The relation of words in sentences as indicated by inflections. (2.) subdivisions of the parts of speech ; (3) analysis ; (4) punctuation ; (5) review of the seventh year work.

Ninth Year. (1) A careful review of the work of the seventh and eighth years with more difficult sentences; (2) analysis ; (3) punctuation.

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## OUTLINE COURSE OF STUDY IN U. S. HISTORY.

### PREPARATORY WORK.

#### *Second Year.*

*Selected stories are to be told by the teacher.* The material may be taken from Mythology, Fable, Romance or Poetry, and adapted to the capacity of the pupil.

Stories become still more educational when accompanied by pictures of persons and places. The teacher may illustrate her story by rough sketches upon the blackboard, or she may make a series of sketches upon a chart, which can be preserved for future use. These exercises, like any other exercises in this grade, should not be extended to the point of weariness. Anything that partakes of the nature of the ghost story should be avoided.

This work should be continued to some extent through the primary grades.

#### *Third Year.*

*Continue story-telling of First Year,* and make such a study of some of the Primitive Races as is suggested by the following illustrative topics. Use pictures and sketches upon blackboard.

#### (1) INDIANS.

Life in tribes : Chiefs. Warfare.

Indian child : Dress. Cradle. Pets. Games. Toys.

Homes : Wigwams, how made. Fire, how built. Food, how cooked. Furniture. Work of the women.

Manners and customs. Trade. Money. Administration of justice. Medicine men. The Great Spirit. Happy Hunting Ground. Treatment of the White men.

(2) ESQUIMAUX.

Appearance and dress.

Houses : Shape, size, how built, how warmed, and furnished.

Food : Material, how obtained, how used.

Dogs : Description, food, how used, characteristics.

Sledges : How made, size, how used.

Boats : Weapons and utensils.

Arctic Animals : Bear, deer, seal, walrus.

Children : Life of the child, dress, sports.

Social Customs : Schools, money, laws, home life, books.

Country : Climate, summer and winter, day and night, sunset and moonlight.

Vegetation : What grows. Forests.

*Fourth Year.*

*Have pupils read stories of American History*, from such elementary works as are suitable for this grade. Encourage pupils to gather additional facts from other sources. Develop clear ideas by questions. Review by having pupils tell the stories several times that have been read.

The following are suggested as suitable topics for this year :

Stories of the Indians — Columbus and Queen Isabella — The Discovery of America — Captain John Smith and Pocahontas — The Pilgrims — The Quakers — William Penn and the Indians — The Boston Tea Party — The first battle of

the Revolution — George Washington and his Army — Stories of the Revolution.

*Fifth Year.*

*Continue work of Fourth Year.*

The Northmen — Stories of discovery and settlement — Life in the Colonies — Brave men and women — Benjamin Franklin — The youth of Washington ("Washington as a Farmer Boy," by Thayer) — The Country after the War — The Slavery Question ("Uncle Tom's Cabin") — The Cotton-gin, the Steamboat, the Railroad, the Telegraph — Abraham Lincoln — Something about the Civil War.

*Sixth Year.*

*Continue work of Fourth and Fifth Years.* It is recommended that the work of this year consist chiefly in reading some handbook of United States History. If there is time for topical study the following are suggested :

Geography, as understood four hundred years ago — Voyage of Discovery — Settlements in Virginia, Massachusetts, and New York — Colonial Times :— Houses, furniture, food, dress, travel, education, etc. — Servants and Slaves — Laws and Customs — Colonial Wars — Forms of Government — Causes of the Revolution — Narrative of the War — A study of George Washington — The first President and his times — John Adams — Thomas Jefferson — Development of the Country — Second War with England — Steam and Electricity — The Mexican War — The Slavery Question — Narrative of the Civil War — Abraham Lincoln.

*Seventh Year.*

*Formal study and recitations begin.*

EARLY SETTLERS.

Northman — Mound Builders — Indians — Spanish ex-



plorers of America : Columbus, De Leon, De Soto — French explorers : Cartier, Verrazani — The Jesuits — English explorers : The Cabots, Henry Hudson — Dutch explorers.

#### COLONIAL DEVELOPMENT.

Virginia — Grants of territory — Character of the Colonists — Navigation Acts — Negro Slavery — Bacon's Rebellion.

#### MASSACHUSETTS PURITANS IN HOLLAND.

Plymouth Colony — Social Organization — Massachusetts Bay Colony — John Endicott — Settlement of Boston — John Winthrop — Growth of the Colony — The town meeting.

#### CONNECTICUT EMIGRANT FROM MASSACHUSETTS.

Colonies united.

Read the narrative of other countries, and note the distinctive features of each.

#### THE INTERCOLONIAL WARS.

The object of these Wars — The condition of the Colonies at their close — Forms of Government — Manners and Customs.

#### THE REVOLUTIONARY PERIOD.

Causes of the War — Continental Congress — One or two leading battles of the Revolution — Results of the War — The adoption of the Constitution : Learn the preamble — Characters of the Revolution : Joseph Warren, Israel Putnam, Nathan Hale, Benedict Arnold, Major Andre, Benjamin Franklin, Marquis De LaFayette, Kosciusko, Baron Steuben, Robert Morris, Count Rochambeau.

#### CIVIL GOVERNMENT.

The *facts* of Local, State and National Government should be taught in this grade in the following order :

- a. What officers chosen.
- b. By whom chosen.

- c.* When and how chosen.
- d.* For what chosen.

*Eighth Year.*

*Continue work of Seventh Year.*

THE GROWTH OF THE UNION.

Maps should be drawn by pupils, showing the several acquisitions of territory.

The administrations may here be studied in the manner indicated by the following outline :

- a.* Political issues.
- b.* Political changes.
- c.* Industrial changes.
- d.* Foreign relations.
- e.* Extension of territory and settlement.

The *principles* of government should be introduced in this grade :

- |                      |   |   |                             |
|----------------------|---|---|-----------------------------|
| Of Local Government. | { | <i>a.</i> Public convenience and welfare. |                             |
|                      |   | <i>b.</i> Public will.                    |                             |
|                      |   | <i>c.</i> Nature of office holding.       |                             |
|                      |   | <i>d.</i> Duties of citizens              | } to vote.<br>to pay taxes. |
|                      |   | <i>e.</i> Public property.                |                             |

OUTLINE COURSE IN GEOGRAPHY.

*First Year.*

Included in the course in Elementary Science.

*Second Year.*

I. Observation.

1. School-room ; location, form, size, parts, directions and distances.

2. Home ; house, location, size, color, parts.

3. Nature ; see outline Elementary Science.

II. Expression. Use ideas gained as basis of oral and written language work, clay modelling and drawing.



*Third Year.*

## I. Observation.

1. School Grounds ; location, form, slope, distances, directions.
2. Neighborhood and district ; streets, public buildings, distances, directions, slopes, soil.
3. Nature ; natural phenomena, common plants and animals.

## II. Expression. Use ideas gained on basis of language work, clay modelling and drawing.

*Fourth Year.*

Review previous work.

- I. Local Geography. Find typical forms of land and water, characteristics of surface, drainage, soils, products, business of people.
- II. World. 1, as a whole, size, form, motions, surface. 2, Continents. 3, Oceans. 4, Location of continents and oceans. 5, Prominent characteristics of continents.
- III. North America. 1, Situation, direction from others. 2, Form. 3, Parts.
- IV. United States ; situation, extent, limits, notable features.
- V. Massachusetts ; situation, form, extent, capital.
- VI. Outline study of South America ; surface, outline, comparison with North America.

*Note.* Throughout, continue oral, written and manual expression of ideas gained.

*Fifth Year.*

- I. Review of work of previous grade.
- II. Relief of North America.
- III. Study New England States.
- IV. Other groups of States, briefly.

- V. Countries of North America.
- VI. Study structure of South America, compare with North America.
- VII. Countries and peoples of South America, briefly.

*Sixth Year.*

- I. Review North and South America.
  - II. Study structure of Europe
  - III. " " " Asia
  - IV. " " " Africa
  - V. " " " Australia
- } compare each with every other.
- VI. Study countries, peoples, and places of the Old World.

*Seventh Year.*

- I. Study of physical geography of the world.
  - (1) As a whole ; (2) by continents, (3) details of each continent ; (4) comparisons ; (5) ocean currents ; (6) motions of trade winds ; (7) location of products ; (8) animals ; (9) races of mankind ; (10) routes of travel and commerce.
- II. Mathematical Geography.
  - (1) Relation of Earth and Solar system ; (2) Motions ; (3) Seasons ; (4) Tides, etc. ; (5) Latitude, Longitude and time ; (6) General Reviews.

*Eighth Year.*

A general review ; one lesson each week.

## OUTLINE COURSE IN ELEMENTARY SCIENCE.

### I. ANIMALS.

*First Year.*

- I. Observation.
  - (1) Domestic animals, birds, common insects.
  - (a) To recognize and name ; (b) Single qualities ;
  - (c) Doings and other interesting facts.

## II. Expression.

1) Oral, names of objects, stories, simple statements.

(2) Written—The teacher is to use the above language as reading lessons on blackboard ; children copy names and simple sentences.

*Second Year.*

## I. Observation.

Domestic animals, birds, insects and other common animals. (a) To recognize and name new animals ; (b) Distinguishing characteristics ; (c) Doings or habits ; (d) Uses and other interesting facts.

## II. Expression.

(1) Oral, brief descriptions of objects studied, doings and stories of animals, etc., (encourage free conversation and questions.)

(2) Written, names of objects and terms used ; spelling, brief statements in connected stories.

*Third Year.*

## I. Observation.

Quadrupeds, birds, insects, fishes.

(a) Continue work of second year ; (b) Distinguishing characteristics and habits ; (c) Comparison of animals ; (d) Inculcate lessons of kindness to animals.

## II. Expression.

Oral and written ; (a) Describe all objects and pictures studied, careful use of names and terms ; (b) Group statements into connected narration ; (c) Tell or write stories about habits or uses of animals studied. *Note.* Encourage free conversation and questions.

*Fourth Year.*

## I. Observation.

Subjects of previous grade.

(a) Group animals according to their resemblances. e. g. flesh eaters, grass eaters, gnawers, etc., birds of prey, birds that swim, etc., insects of different kinds ; (b) Watch growth and development, as of butterflies, turtles, frogs; (c) Collect specimens and pictures ; (d) Stories of animals, care and kindness. Notice grace of form and movement.

## II. Expression.

Oral and written ; (a) Description of animals studied ; (b) Stories of their habits and uses ; (c) Reproduction of stories read ; (d) Recitation of appropriate quotations. Encourage free discussion.

### *Fifth Year.*

#### I. Observation and appropriate reading.

(a) Contains subjects of previous grades ; (b) Continue work of fourth grade in kind, (amplify it to correspond with the grade) ; (c) Observation of the parts of animals, and the beautiful adaptability of the parts to the creatures' needs ; (d) Closer observation of habits of animals ; (e) inculcate lessons of kindness to animals.

#### II. Expression.

Oral and written. Continue language work of previous grade. Strive to obtain accuracy and hints in all descriptions of animals and their habits and in the reproduction from memory or stories told or read in relation thereto.

### *Sixth Year.*

#### I. Observation and reading.

(a) Continue work of previous grade ; (b) Study about animals of the several zones ; (c) Their habits and values ; (d) Study and collect typical insects.

#### II. Expression.

Oral and written. As in previous grade.

*Seventh Year.*

## I. Observation and reading.

(a) Distinguishing marks of reptiles, fishes, birds, mammals ; (b) Their geographical distribution and uses to man ; (c) Examination of typical forms of animal life in the sea, e. g., sponges, corals, shell-fish, etc. ; (d) shells, collect, name and locate.

## II. Expression.

All knowledge obtained in study to be expressed in language. (See Language Course.)

*Eighth Year.*

## I. Observation and reading.

(a) Collect animal products, as wool, leather, fur, feathers, ivory, honey, wax, glue, oils, etc. ; (b) Their sources or localities ; (c) Their manufacture, qualities and uses. Continue work of previous grades, naming and classifying more animals, studying their habits, uses, etc.

## II. Expression. See Language Course.

## II. PLANTS.

*First Year.*

## I. Observation.

Common plants, flowers, fruits.

(a) To recognize and name ; (b) qualities, as color, form, etc., and uses ; (c) Interesting facts, as where found and how to keep them.

## II. Expression.

Follow directions given in outline study of animals.

*Second Year.*

## I. Observation.

Trees, shrubs and common plants.

(a) To recognize and name ; (b) Uses or values ; (c)

Most noticeable qualities ; (d) Interesting facts, as to place and manner of growth, cultivation, etc. In the appropriate months observe seeds, buds, leaves, flowers, fruits ; collect specimens.

II. Expression. See outline for study of animals.

*Third Year.*

I. Observation.

Trees, shrubs, flowers, fruits, vegetables.

- (a) Where and how they grow ; (b) Uses or values ;
- (c) In appropriate months, study planting, growth, care, harvesting ; cultivate plants in school-yard and school-room ;
- (d) Observe parts of trees, plants, flowers.

II. Expression.

1. Clay Modeling. (a) Natural forms, fruits, etc. ; (b) Impressions of forms, leaves, fruits, etc.

2. Drawing. (a) Simple plants and flowers, leaves, fruits, etc.

3. Language. See outline study of animals.

*Fourth Year.*

I. Observation and Reading.

(a) Continue observation and naming of common trees, shrubs, vines, flowers, fruits, vegetables and grains ; how and when they grow ; their uses and values ; parts of plants, as roots, stalk, branch, buds, flowers, fruits, seeds, etc., as in previous grade. (b) Classification of plants by their uses, as for food, shelter, clothing, etc. Continue collecting and naming specimens ; (c) Compare parts of plants, as leaves, shapes, veins, etc. ; parts of flowers in number, form, color, arrangement ; (d) Growth of leaves and flowers from buds, fruit from flowers, and seeds into the new plant.

II. Expression.

1. Clay modeling. Leaf and fruit forms in relief.

2. Drawing. Representation of whole plants ; of parts, such as flowers, fruits, leaves ; of the structure and arrangement of fruits, etc.
3. Language. See outline study of animals.

*Fifth Year.*

I. Observation and Reading.

(a) Continue subjects and work of previous grades ; (b) Parts of fruits, covering, structure, seeds, etc. ; (c) development of seed into plant, flower, fruit, and seed again ; (d) more careful study of food plants ; (e) effects of climate upon plant life ; (f) collection of common woods, their uses.

II. Expression.

1. Clay modeling. Fruits, leaves and vegetables in relief.
2. Drawing, free hand expression of ideas gained from study of objects.
3. See outline study of animals.

*Sixth Year.*

I. Observation and Reading.

1. Clay modeling. Plants and their parts.
2. Drawing. Continued as above.
3. Language. See outline study of animals.

*Seventh Year.*

I. Observation and Reading.

(a) Geographical distribution of plants ; (b) Effects of climate upon vegetation ; (c) Great forests ; (d) Plant products, as gum, spices, foreign fruits, material for clothing, etc.

II. Expression.

1. Clay modeling.
2. Drawing.
3. Language. See outline course in language.



*Eighth Year.*

## I. Observation and reading.

(a) Continue the work of collecting, naming, and classifying new plants; (b) Collect woods used in manufacturing; (c) Their qualities and values; (d) Uses; (e) Distribution.

## II. Expression.

## 1. Drawing.

## 2. Language. See language course.

## III. THE HUMAN BODY.

*First Year.*

## I. Observation.

(a) The whole body, care, health, cleanliness, comfort; including "special instruction as to the effects of alcoholic drinks, stimulants and narcotics;" (b) Noticeable parts.

## II. EXPRESSION.

See outline for study of plants and animals.

*Second Year.*

## I. Observation.

(a) The whole body, care, health, cleanliness, comfort; including "special instruction as to the effects of alcoholic drinks, stimulants and narcotics;" (b) Parts, care of, uses. [NOTE. — Teachers should find out defects in eyesight, hearing, and other physical defects, and act accordingly.]

*Third Year.*

## I. Observation.

(a) As a whole, as in previous grades; foods and drinks; work, rest, recreation; protection against sickness; (b) Parts of the body that can be seen, uses, care of. Lessons and stories of good living and good manners, including "special instruction as to the effects of alcoholic drinks, stimulants and narcotics."



*Fourth Year.*

## I. Observation.

(a) As a whole, inculcate rules for correct living, e. g., correct habits, proper food and drink, play, work, rest, clothing, cleanliness; including "special instruction as to the effects of alcoholic drinks, stimulants and narcotics; (b) Continuation of study of parts of body.

*Fifth Year.*

## I. Observation and reading.

(a) Continue work of previous grade; (b) Walls and limbs; (c) Skin, muscles, fat, blood, blood vessels, nerves, bones, joints, ligaments; (d) Means and importance of ventilation, and "special instruction as to the effects of alcoholic drinks, stimulants and narcotics."

*Sixth Year.*

## I. Observation and reading.

(a) Continuation of health lessons of previous grade; (b) The body as a whole, recapitulation of parts; (c) Internal organs, name and place of each, connection and relation, the work of each; (d) "special instruction as to the effects of alcoholic drinks, stimulants and narcotics."

*Seventh Year.*

## I. Observation and reading.

(a) Continuation of work of sixth grade; (b) Digestive system, course of food, care of teeth, mastification, time for eating, etc.; (c) Circulating system, course of blood, location of organs, arteries, veins, pulses, treatment of cuts, bruises; (d) Respiratory system, course of the air, nose breathing, deep breathing, evil effects of compression, effects of breathing impure air, of colds, treatment of persons rescued from drowning, and of those who have swallowed poison. Special instruction as to the effects of alcoholic drinks, stimulants and narcotics.

*Eighth Year.*

## I. Observation and reading.

(1) Bony system. (a) Growth of bones ; (b) Beauty and harmony of structure and function ; (c) Deformities, how avoided, how cured.

(2) Muscular system. (a) Attachment and arrangement of muscles ; (b) Blood supply ; (c) Principles in training.

(3) Nervous system. (a) Division of nervous system ; (b) Uses of nerve centres and nerve fibres ; (c) Sleep, the best form of rest ; (d) Dependence of nervous system on other systems of the body (e) Necessity of sunlight and pure air.

(4) Skin. (a) Uses of ; (b) Bathing ; (c) Clothing. Teach pupils (1) to *know* what is *right* in the use and care of the body, and why ; (2) To *know* what is *wrong* in the use and care of the body, and why ; (3) To feel the obligation to do right, and to choose to do it ; (4) To be charitable and helpful.

Teach the pupils to abstain from the use of stimulants and narcotics, (1) Because they know and feel it to be right ; (2) Because they desire to become strong and upright men and women.

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IV. NATURAL PHENOMENA.*First Year.*

## I. Observation.

(a) Day and night ; (b) Sun, light, moon, stars ; (c) Rain, hail, snow ; (d) Winds.

*Second Year.*

## I. Observation.

(a) Continue work of first year ; (b) Day and night, air, wind, forms of water. Observe when occasion is present.

*Third Year.*

## I. Observation.

Sun, light, heat, fire, moon, day, night, darkness, cold, air, wind, forms of water, vapor, steam, clouds, mist, fog, rain, hail, the rainbow, etc.

(a) Observe ; (b) Note changes of forms of water ; (c) Effects of heat, cold, wind, motion, etc.

*Fourth Year.*

## I. Observation and reading.

(a) Continue work of previous grades ; (b) Observe effects of heat, cold, moisture, winds ; (c) Beauties of sky and cloud ; (d) storms, gales, tempests ; (e) Weather peculiar to the several months and seasons.

*Fifth, Sixth and Seventh years.*

Continue work of preceding grades. Study natural phenomena connected with Geography, for which see outlines in Geography.

*Eighth year.*

## Elementary physics.

(a) States of matter ; (b) Motion and force ; (c) Gravitation ; (d) Mechanical forces ; (e) Pressure in fluids ; (f) Heat ; (g) Light ; (h) Sound ; (i) Chemical action and changes.

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OUTLINE COURSE IN MINERALOGY.*Third Year.*

Earth, soil, gravel, sand, pebbles, rocks, coal, iron, slate.

(a) Collect and label specimens with locality ; (b) recognize and name ; (c) principal characteristics ; (d) uses.

*Fourth Year.*

(a) Continue study of subjects of previous grade ; (b) observe one or more qualities ; (c) collect samples of earth from hills, level country, low valleys ; (d) compare uses and values.

*Fifth Year.*

(a) Continuation of subjects of previous grade ; (b) collect, recognize, and name typical minerals, metals and rocks ; (c) note distinctive qualities and uses ; (d) compare qualities and begin simple classification ; (e) fertility of soils.

*Sixth Year.*

(a) Continue work of fifth grade ; (b) select typical minerals, metals and rocks for careful examination of qualities and uses ; (c) study specimens from localities in the United States ; (d) natural wealth or resources of countries ; (e) action of the elements upon rocks, making of soil.

*Seventh Year.*

(a) Study of the useful rocks and their geographical distribution ; (b) geographical distribution of coal, iron, and other metals.

*Eighth Year.*

(a) Collect minerals and metals used in the arts ; (b) their geographical distribution ; (c) their manufacture ; (d) qualities and uses ; (e) values.

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**FORM, COLOR AND FREEHAND DRAWING.****I. FORM.***First Year.*

(a) Typical models ; (b) Tablets ; (c) Forms in nature.

*Second Year.*

(a) Typical models; (b) Tablets; (c) Applications in nature; (d) In common things.

*Third Year.*

(a) Typical solids; (b) Vase forms; (c) Common utensils; (d) Forms in nature.

*Fourth Year.*

## FORM AND COLOR.

(a) Continue work of previous grades; (b) Observe forms and colors in natural objects and in objects made by man; (c) Harmony of form and color..

*Fifth year.*

(a) Continue work as in fourth grade; (b) Simple studies in ornamentation.

*Sixth year.*

(a) Continuation of previous grade work; (b) Studies in harmony of color and in simple ornamentation.

*Seventh and Eighth years.*

(a) Form and color studies continued; (b) Special relation to art and architecture.

## II. COLOR.

*First year.*

(a) Standards in paper; (b) In nature.

*Second year.*

(a) Standards in paper, worsted, cloth, pigments; (b) In nature, trees, leaves, fruits, flowers, sky, etc.

*Third year.*

(a) Continuation of second year's work; (b) From spectrum; (c) From nature; (d) Plants, flowers, etc.

For succeeding grades Form and Color work are grouped in the outline.

## MECHANICAL DRAWING AND CONSTRUCTION.

*Fourth year.*

## I. Drawing.

*Tools:* rule and pencil.

1. *Draw* horizontal, vertical, and oblique parallel lines.
2. *Locating* lines at given distances (arrangement.)
3. *Dividing* lines into inches,  $\frac{1}{2}$  in.,  $\frac{1}{4}$  in.,  $\frac{1}{8}$  in.; bisecting, etc
4. *Measuring* books, slates, desks, etc. Laying off lines of exact measurements.
5. Draw squares and oblongs by aid of cards with square corners; angles; crosses. Apply in simple working drawings.
6. Practical *applications* of above at teacher's discretion; *e. g.*, repetition of units in borders.
7. *Application* of above to work in arithmetic.

## II. Construction.

*Material:* sticks, tablets, and paper (manila and colored.)

1. *Folding* squares; diameters and diagonals, areas, circles, diameter and radius.
2. *Cutting* quadrilaterals and triangles, crosses; developments, patterns of cube, to correspond with the freehand drawing. Applications; *e. g.*, repetitions of units in borders and surface coverings.
3. *Clay modeling:* tiles, fruit and leaves.

*Fifth year.*

## I. Drawing.

*Tools:* pencil, rule, angle 45 degrees, compasses and pencil.

1. *Review* work of fourth year. Teach 1-16 inch.
2. *Draw* quadrilaterals (all the parallelograms) and triangles (by taking half the quadrilaterals.)
3. *Draw patterns* of cube, square, and right-triangular prisms, rectangular box. All drawings to *measurement*.

4. *Working drawings* of same.
5. *Draw circles* : diameters, semicircle, and quadrant.
6. *Draw fractions of a circle* :  $\frac{1}{2}$   $\frac{1}{4}$   $\frac{1}{8}$   $\frac{1}{3}$   $\frac{1}{6}$ .
7. *Application* as in forth grade.

## II. Construction.

*Material*: manilla paper, card-board, paste.

*Tools*: scissors, knife, cutting-board.

1. *Continue* and *review* work of fourth year.
2. *Make tablets* of card-board as above ; fractions of circles ; maps of paper and card-board. Cut out all forms drawn, to test accuracy.
3. *Make patterns* as above, and paste.
4. *Clay modeling* as in fourth grade ; make clay maps.

## *Sixth year.*

### I. Drawing.

*Tools*: pencils, rules, angle 45 degrees, pencil and compasses.

1. *Review* previous work. Begin *drawing to scale*, half size and quarter size.
2. Draw all quadrilaterals. All triangles. Application in designs.
3. Draw *patterns* as before, adding equilateral-triangular prism. Working drawings to scale.
4. Divide circles into thirds and sixths. Draw *hexagon*.
5. *Ellipse* (string and pins,) vase forms, shields, etc.
6. *Block letters*.
7. *Simple geometrical problems* in plane figures.

### II. Construction.

*Material*: clay, manilla paper, card-board, soft wood, paste, glue.

*Tools*: scissors, knives.

1. *Construct* figures drawn.



2. *Invention.* Application in designs for borders and surface coverings.
3. *Make letters.*
4. *Make fractions.*
5. *Make maps.*
6. *Clay:* tiles, bas-reliefs, maps, invention of designs in clay.

*Seventh year.*

I. Drawing.

*Tools:* pencils, rules, angles, pencil and compasses, T square, and drawing-board.

1. *Review* work of previous grades. Draw to scale, 1 inch equals 1 foot.
2. All *quadrilaterals* and *triangles* to scale and upon given lines ; erect perpendiculars.
3. Draw *ellipse* and *oval*.
4. Draw *patterns* as in drawing-book. *Working drawings*, three views.
5. *Lettering.* Designs for ornaments.
6. Continue *geometric problems* involving the circle, inscribing and circumscribing, *e. g.*, triangles, squares, and hexagons.

In the revision of these courses of study no effort has been made to reconcile the many conflicting theories that exist concerning just what subjects should be taught or the proper order of their presentation. Upon such questions opinions will always differ, and without serious injury to the schools. There are, however, certain well defined principles that should be carefully considered in the preparation of courses of study, and which have directed your sub-committee in its work of revision. In order that the changes which have been suggested may be more fully understood the following brief explanation in relation thereto is herewith presented :



## HIGH SCHOOL COURSES.

The revision of the High School Courses of study has been largely influenced by the requirements of the college examinations on the one hand and by the popular demand for elective courses, giving the pupil a wider range in the selection of studies, on the other. These influences have lead to the following changes: In the general and English courses the work in general history and in English—including English grammar, composition and literature—has been materially strengthened, laboratory work in physics and chemistry introduced, and French, German and Latin made, in a measure, elective.

A scientific course, fitting for the Institute of Technology or other scientific schools, has been introduced and has already met with considerable favor.

In the College Preparatory Course, which is largely determined by the requirements for admission to college, the course in mathematics has been extended to cover three years, two years of either French or German provided, and all subjects not absolutely required in preparation for college eliminated.

It is believed that these changes, together with those of equal importance which have been made in the courses for the lower grades, will materially strengthen the future work of our High school.

## GRAMMAR AND PRIMARY COURSES.

In the revision of these courses it has been the aim first, to eliminate all dead and useless matter, the presence of which has seriously interfered with the proper training in essentials; second, to present the various subjects to be studied in the logical order of their dependence.

A comparison of the revised courses in arithmetic and

geography with those previously in use in our schools will well illustrate my meaning.

#### ARITHMETIC.

The course in arithmetic as revised recognizes but four lines of work to be carried on in a large measure simultaneously.

They are as follows : (1) the four fundamental operations ; (2) fractions, common and decimal ; (3) mensuration ; (4) percentage.

It has been demonstrated beyond the possibility of a doubt that these four lines of work can be pursued in one-half the time usually devoted to the study of arithmetic, and with far more satisfactory results.

#### GEOGRAPHY.

Text-books in geography and the many outline courses that have been devised for use in our schools have far too generally had in view the study of a vast mass of purely incidental matter under which the main subject has been hopelessly buried. The real purpose in the study of geography should be to gain a knowledge of the physical features and conditions of our own locality—primarily our own continent—as a means of comparison with all others, thereby gaining a knowledge of the whole earth. Political divisions, governments, religions, manners, customs, and pursuits are but incidental topics, and as such should not be given undue prominence.

These opinions find practical expression in the revised course as presented, to the end that time may be gained for the more careful consideration of other important subjects.

#### LANGUAGE AND ELEMENTARY SCIENCE.

These two subjects are here considered together because

it is believed that an important and mutually helpful relation exists between them as parts of a school curriculum.

The fact is generally recognized that the teaching of language in our schools is not productive of satisfactory results. Pupils graduate from our grammar and high schools without having acquired right habits, either of thought or of its proper expression in language. The ability to use language correctly and easily is entirely a matter of habit, and as such can only be acquired by constant practice, not simply in the expression of thought, but in its correct expression. In the teaching of language, therefore, we should train the child to right habits of thought and at the same time afford him every opportunity for practice in the correct expression of his thoughts.

How better can these two results be attained than by teaching the child first, to know what there is in the world about him, and then by training him to express that knowledge in good English. It is largely to this end that the course in Elementary Science has been introduced, and while it is not assumed that, if put in operation, all of the difficulties in language work will be removed, it is confidently believed that if good results along the lines suggested must follow.

The outline as presented does not imply a definite order in which the various branches of Natural Science must be taught; but is simply suggestive as showing what material may be used, with the hope that each teacher may become interested in some one or more lines of this work and introduce its systematic study in her school.

In this connection I desire to refer to a matter that has a direct bearing upon the language work of the Grammar grades, namely, the action of this Board in establishing, at the suggestion of its chairman, school libraries for use in each room of these grades. Superintendent Howland of

Chicago, says : "Above the primary grades reading should be for culture, for information, for broadening and deepening the knowledge and thought of the pupil, rather than for cultivating oratory, so called, one of the most, if not the most pernicious exercise of the school room."

Recognizing the truth so concisely stated in the above quotation, I believe this action of the Board will have an important influence in the future training in our schools.

#### HISTORY.

The course in History presents no wide departure from that previously in use. The effort has been made to render it as concise as possible so that the salient facts and relations in the history of our country may be easily acquired, and retained without unreasonable effort.

It is believed that the preliminary course in historical reading, newly introduced, will prove of great advantage both in leading up to, and supplementing, the formal study of history in the seventh and eighth grades, and in developing such a love for the work as will lead to wide historical reading in after life.

With this brief explanation the revised courses are submitted for your consideration, with the hope that such changes as have been made will prove of practical value in the future work of the schools.

#### PRIMARY AND GRAMMAR SCHOOLS.

The work in the Primary and Grammar grades during the year has shown continued progress in spite of conditions not the most favorable. Overcrowded and imperfectly graded rooms, frequent interruptions on account of alterations and repairs, an epidemic of diphtheria and insufficiently heated school rooms are among the causes that have con-

spired to interfere with the harmonious working of the schools ; in spite of which, however, the usual amount of work has been accomplished.

The following changes in teachers have been made since Sept., 1891 :

#### CENTRE DISTRICT.

Miss Sweetser was promoted to succeed Miss Fairbanks, as principal of the eighth grade, and Miss Eva W. Crane elected as her assistant. Miss Florence H. White was elected as assistant to Miss Chapin in the primary grades.

#### GROVE STREET DISTRICT.

Miss Barrett and Miss Young were each advanced one grade on account of Miss Swett's promotion to the High school, and Miss A. Louise McCormick elected as teacher of the fifth grade, made vacant by previous promotions. Miss Smith was transferred from the Vinton street school to the first and second grade, and as she was granted leave of absence for one year her position was filled by the election of Miss Hattie M. Cutter.

#### VINTON STREET.

Mrs. Dermot was advanced to the third grade made vacant by the transfer of Miss Smith to Grove street, and her position filled by the transfer of Miss Trowbridge from Grove street.

#### MELROSE HIGHLANDS.

Miss Mitchell was given charge of the sixth grade at Green street, Miss Guptill promoted to the fifth grade at Franklin street and Miss Theodora Teague elected to fill the vacancy occasioned by these promotions.

Miss Randlett being granted leave of absence for one

year, her position was filled by the election of Miss Hattie M. Field.

#### UPHAM HILL.

Miss Call was transferred from the Ripley to the first and second grades on Upham hill, and Miss Annie G. Smith elected as teacher of the seventh grade, which it was found necessary to establish in this district.

#### RIPLEY.

Miss Esther M. Davies was elected teacher of this school to succeed Miss Call, transferred.

#### THE HIGH SCHOOL.

The report for the year from this school shows a material increase in the number of pupils attending. The school at the present time numbers two hundred pupils and seven teachers.

During the summer vacation Miss Mansfield was granted leave of absence for one year and Mr. Oliver B. Roberts, Jr., of Melrose, was elected to fill the position during her absence. The choice was a fortunate one and the work in Greek and German has been ably conducted by him since he commenced his duties in September.

On account of the rapid growth of the school it was found necessary upon its opening in Sept., to add two teachers to the force previously employed. To fill these positions Miss Fairbanks and Miss Swett were advanced from the respective positions in which each had demonstrated her peculiar abilities as a teacher, thereby granting to them well merited promotion, and materially strengthening the teaching force of the school.

#### MUSIC.

An important change in this department was made dur-



ing the summer vacation, when, by vote of the Board the Tonic Sol Fa System was abandoned and the Staff Notation substituted.

This change implied a change in teachers, and Mr. Grant Drake of Melrose was elected to succeed Mr. Harry Benson. As this change did not go into effect until last September it is too early to place any just estimate on what has been accomplished since that time. There is ample evidence however, that the work is progressing in the right direction and there is no reason to doubt but that in another year the music in our school will be upon an intelligent basis and will have real educational value.

#### DRAWING.

Those who attended the Drawing Exhibition held in the Town Hall last year can testify to the progress that has been made in this important department of our schools in the last three years.

Unfortunately, the teacher of drawing, Miss Creveling, was obliged to resign at the end of the school year, and thus interrupted the work of the department which she had brought to so great a degree of efficiency. In the election of Mr. Carter, also director of drawing in the Woburn schools, as her successor, a fortunate choice was made.

The work has gone on with no apparent interruption on account of the change, and it is safe to affirm that better work educationally is being done in this department to-day than ever before.

#### EVENING SCHOOLS.

Early in the spring of 1891, an evening school was opened in the High school building, as an experiment to test the demand for such a school in our town. To the surprise of all concerned, pupils flocked to the school until the enrollment reached 212. The average attendance during the first

four months after organization was 175, gradually falling to about 60 when the session closed.

The school was very successful and seemed to fill a very general want.

The sessions of the school have been reopened, and although the attendance is much smaller than last year, the work is progressing in a very satisfactory manner.

As there seems to be a demand for an evening drawing school, I would respectfully recommend that should the demand exist when the next term of the evening school begins such school be opened.

In closing this my second annual report, I wish again to thank the citizens of the town, the teachers and the members of the Board for the uniform kindness and consideration that have been shown me in the discharge of the duties of this office.

Respectfully submitted,

GUY C. CHANNEL,

Superintendent of Schools.

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*In School Committee,* )  
MELROSE, MASS., Feb. 17, 1892. }

*Ordered,* That the annual report of the Superintendent of Schools be accepted and adopted as the report of the School Committee to the town.

J. C. MAKER, *Secretary.*



1891.

*Vincit qui se vincit.*

GRADUATION EXERCISES.  
MELROSE HIGH SCHOOL.

TOWN HALL, THURSDAY EVENING, JUNE 25.

Exercises commence at 8 o'clock.

## PROGRAMME.

## PART I.

OVERTURE.—“Golden Crown,” . . . . . *Herman.*

MELROSE ORCHESTRA.

CHORUS.—“The Heavens are Telling.” . . . . *From the Creation.*

SALUTATORY ESSAY.—“The Last Night of Ilium.”

CLASS POEM.—“Henceforward.”

SARA CONE BRYANT.

“THE DECREE OF ZEUS.”

SARAH M. FISHER.

“L' ANDROMAQUE DE RACINE.”

JOSEPH B. BELLIVEAU.

PIANO SOLO.—“La Polka de la Reine.” . . . . *J. Raff.*

FLORENCE L. MAKER.

RECITATION.—“The Massacre of Zoroaster.”

MAUD F. BARRETT.

\* “THE ADVANMAGES OF EDUCATION.”

FRED P. WOODBURY.

“ART IN HOMERIC TIME.”

MARY L. LORING.

AWARDING OF FRANKLIN FRATERNITY PRIZES.

## PART II.

WALTZES.—“Jungherren Tänze,” . . . . . *J. Gung'l.*

ORCHESTRA.

CHORUS.—“Light o'er Sparkling Ocean Breaking,” . . . *From Bianca e Fernando.*

“INDIAN MYTHS OF THE WHITE MOUNTAINS.”

EMMA J. NORRIS.

“CLASS REMINISCENCES.”

WILLIAM D. COLLINS.

\* "A DREAM OF WHITTIER'S WOMEN."

ALICE M. BURR.

RECITATION.—"Il Trovatore."

FLORENCE R. GRAY.

ESSAY AND VALEDICTORY.—"The Importance of Little Things."

MAUD L. SANFORD.

CHORUS.—From Cantata, "The Daughter of Jairus."

AWARDING DIPLOMAS.

SELECTION.—"Princesse de Trebizonde." . . . . . *Offenback.*

ORCHESTRA.

\* Excused.

### NAMES OF GRADUATES.

E. MAUD FRANCIS BARRETT.	L. EMMA JOSEPHINE NORRIS.
C. SARA CONE BRYANT.	C. MAUD LOUISE SANFORD.
L. ALICE M. BURR.	C. ETTA MAY TAYLOR.
L. HELEN GERTRUDE ELLIOTT.	E. ALICE MAY TUFTS.
C. SARAH M. FISHER.	E. LILY WOOLDRIDGE.
L. FLORENCE R. GRAY.	L. JOSEPH B. BELLIVEAU.
E. SUSIE ALICE HOLT.	C. WILLIAM D. COLLINS.
P. EDITH BACON HUNT.	E. WALTER E. CURRY.
C. MARY L. LORING.	P. THOMAS C. J. FOLEY.
P. GRACE ARLINE LYNDE.	E. ARTHUR A. KNIGHTS.
P. FLORENCE LOUISE MAKER.	T. FRED P. WOODBURY.
C. FLORENCE E. MANLEY.	L. WILLIAM J. WOOLDRIDGE.
L. ANNIE ARLINE MERRILL.	

c. College Course. L. Latin Course. E. English Course. T. Technology Course.  
P. Partial Course.

Honorable mention is made of the following scholars, for excellence in literature.

*First Class.*

Alice M. Brown,	Emma J. Norris,
Sara C. Bryant,	Maud L. Sanford,
Sarah M. Fisher,	Fred P. Woodbury,
Florence R. Gray,	Lilly Wooldridge.
Grace A. Lynde,	

*Second Class.*

J. Helen Bartholomew,	Effie L. Shapleigh,
Alice K. Marshall,	Susie W. Flint,
Anna M. Kitching,	Albert E. Small.

*Third Class.*

Bessie Atwood,	Jessie O. Henderson,
Grace D. Sanford,	Erwin Gilchrist,
Mary L. Norris,	Ashton L. Carr.

*Fourth Class.*

Lois Holmes,	Mabel Merrill,
Josie B. Worthen,	Isabel Drake,
Amelia Baldwin,	William E. Waterhouse,
Olive B. Gilchrist,	Fred M. Cleveland,
Helen J. Moorhouse,	William J. Sanford,
Mabel Stewart,	Willis A. Moore.
Lucille E. Sargent,	

Honorable mention is made of the following scholars for excellence in Mathematics :

*First Class.*

Maud L. Sanford,	William D. Collins,
Sarah M. Fisher,	Fred P. Woodbury.
Sara C. Bryant,	

*Second Class.*

J. Helen Bartholomew,  
Orville F. Dow,

Albert C. Small.

*Third Class.*

Nora L. Brown,  
Grace B. Leighton,  
Mary L. Norris,  
Grace D. Sanford,  
Inez V. Stickney,

Ashton L. Carr,  
Erwin Gilchrist,  
Irwin Hunnewill,  
Starr Keyes.

*Fourth Class.*

Amelia Baldwin,  
Isabella Drake,  
Olive B. Gilchrist,  
Lois Holmes,  
Mabel Merrill,  
Helen J. Moorhouse,  
Lucille Elaine Sargent,  
Josie B. Worthen,

Bertha H. Snow,  
Fred M. Cleveland,  
John H. Larrabee,  
William J. Sanford,  
William E. Waterhouse,  
Willis A. Moore,  
J. William Ames,  
Carl C. Crane.

## Subjects for the Fraternity Prizes :

- "Comparison of two of the Speeches in Pandemonium." or  
any subject from "Iliad" or "Merchant of Venice."  
"Shakespeare's Women," or "Character of Clearchus," or  
any subject from "Julius Cæsar."  
Puritan New England, as learned from "The Courtship of  
Miles Standish," or "A Day with Longfellow at  
Cragie House."  
"Scottish Melrose and its Massachusetts Namesake," or  
"The Growth and Decay of the Athenian Empire."

Prizes were awarded as follows :

Literature, first prize, Sara Cone Bryant.

“ second prize, Susie M. Flint.

“ third prize, Emma J. Norris.

“ fourth prize, Maul L. Sanford.

Mathematics, first prize, geometry, Albert E. Small.

“ second prize, algebra, Inez V. Stickney (3rd . class).

“ third prize, algebra, Helen J. Moorhouse (4th class).

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## GRADUATION.

### MELROSE FIRST GRAMMAR SCHOOL.

FRIDAY, JUNE 26, 1891, 10 O'CLOCK A. M.

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#### PROGRAMME.

1. OPENING MARCH.
2. CHORUS . . . . . “Sweet the Angelus is ringing.”
3. PHYSICAL EXERCISES . . . . . “Highland ” Pupils.
4. CHORUS . . . . . “Let us all to the Fields Repair.
5. PHYSICAL EXERCISES . . . . . “Centre ” Pupils.
6. ADDRESS . . . . . Mrs. Mary A. Livermore.
7. CHORUS . . . . . “Distant Bells.”
8. AWARDING DIPLOMAS.
9. CLASS HYMN.

## GRADUATES.

## CENTRE SCHOOL.

Carl Frederic Anderson,	Ralph Hills,
Sara Munroe Anderson,	Jennie Taylor Hodge,
Edward C. Albee,	Charles Albert Holbrook,
Edward A. Austin,	John Holmes Johnson,
Effie Lulu Backer,	Fannie M. King,
Jeanette Grace Baldwin,	Alice Gertrude Leavitt,
Andrew W. Barker,	Harry Myron Leslie,
Charles Gardner Barry,	Horatio Ayers Libby,
Alice Frances Bond,	William Parker Libby,
H. Edith Bradbury,	Lena Draxey Marshall,
Stephen Milmore Brown,	James Lawrence Martin, Jr.,
Robert Brown,	Elizabeth Harrington New-
George Herbert Brown,	hall,
George Phillips Bryant,	Polly I. Parker,
Evelyn Stone Chaloner,	Ethel Merrill Patch,
Fred Mervin Covell,	Fred Stetson Phinney,
Ernest Francis Curry,	Jennie Louisa Powers,
George Ernest Curtis,	Aimee Lee Sears,
Samuel Dearborn,	Albert William Snow,
Stevie C. Deering,	Edith Tenney,
Paul Depew,	George Hallett Towne,
Eva May Dickey,	Gertrude Sears Upham,
Grace Louise Dow,	Mattie Maud Watson,
Ethel Fernald,	Gertrude May Weeks,
Albert Barnes Franklin, Jr.,	Ina Winnifred Whelden,
Frederic Justus Geist,	Maybel Louise White,
Mary Ellen Grady,	Laura May White,
Margaret Rebecca Grady,	Edith May Whitford,
Emily Prince Gurney,	Frances Emma Whitter,
Roland Winslow Harris,	Edwin Wooldridge,
Frank D. Hawes,	Carrie Leeds Worthen.

## HIGHLANDS SCHOOL.

Charles Addison Bacheller,	Marguerita Bragdon Mc-
Simeon Harold Baker,	Lellan,
Jessie May Baker,	Arthur Nelson Nims,
Clarence Dean Bemis,	Edith Emma Orton,
Carrie May Bicknell,	Grace Elizabeth Orton,
Arthur Hamelin Boynton,	Lizzie True Pearson,
May Agnes Chisholm,	Edmund Robinson,
William Johnson Colby,	Francis Carroll Robie,
Maud Cross,	Charlotte May Robinson,
Emily Chipman Henderson,	Grace Evans Rowe,
Edith May Holt,	Alma Bowen Strain,
Luther Brown Johnson,	Edwin Guptill Strain,
Isabella Steadman Jones,	Louise Madeline Wells.
Frank Willard Macdonald,	

## SALARIES OF TEACHERS AND SUPERINTENDENT.

NAMES.	SCHOOLS	SALARIES.
Alonzo G. Whitman . . .	High, Principal . . .	\$2,000
Harriet C. Fairbanks . . .	" Assistant . . .	1,000
A. A. Ballou . . .	" " . . .	800
Hattie G. Ricker . . .	" " . . .	650
Oliver B. Roberts, Jr. . .	" " . . .	650
Alice M. Swett . . .	" " . . .	650
Guy C. Channell . . .	" " . . .	200
Effie C. Sweetser . . .	8th Gr., Centre, Princ. . .	700
Eva M. Crane . . .	" " " Assist. . .	450
Lydia Mendum . . .	7th & 8th Grades, Franklin st., Princ. . .	700
Lucy W. Bisbee . . .	7th Grade, Centre . . .	600
Helen J. Barrett . . .	" " Essex st. . .	600
Annie G. Smith . . .	" " Upham hill . . .	500
Susan D. Melcher . . .	6th " Centre, Princ. . .	550
Belle Mitchell . . .	" " Green st. . .	525
Janet Young . . .	" " Grove st. . .	525
Lillie J. Davis . . .	5th & 6th Grades, Essex st. . .	525
Mary J. George . . .	5th Grade, Centre . . .	525
Alma J. Guptill . . .	" " Franklin st. . .	525
A. Louisa McCormick . . .	" " Grove st. . .	500
Annie Chadbourne . . .	3rd, 4th & 5th Grades, Upham hill . . .	525
Alice H. Long . . .	4th Grade, Vinton st. . .	525
Della H. Crosby . . .	3rd & 4th Gr. Grove st. . .	525
Isabelle L. Atwood . . .	" " " Centre . . .	525
Emma A. Weeks . . .	" " " Converse . . .	475
Theodora Teague . . .	" " " Franklin st. . .	500
Florence Ellis . . .	" " " Lynde st. . .	525
Lucy F. Dermot . . .	" " " Vinton st. . .	525
Amelia Trowbridge . . .	2nd " " . . .	475
Isabel Chapin . . .	1st & 2nd " Centre . . .	525
Florence H. White . . .	" " " Centre, Assist. . .	400
Mary E. Nye . . .	" " " Converse . . .	475
Hattie M. Field . . .	" " " Franklin st. . .	425



Annie M. Ransom	. 1st & 2d Gr. Vinton st	525
Etta J. Call . . .	. " " " Upham hill	475
Nellie Dempsey . .	. " " " Lynde st.	450
Hattie M. Cutter . .	. " " " Grove st.	450
Mary A. Plummer . .	. Mixed school, West .	475
Florence M. Perry . .	. " " Green st.	475
Easter M. Davis . . .	. " " Ripley .	500
Willis S. Carter . . .	. Drawing . . . .	400
Grant Drake . . . .	. Music . . . .	400
Guy C. Channell . . .	. Superintendent . . .	2,000

## JANITORS.

NAMES.	SCHOOLS.	SALARIES.
J. W. Boyce . . .	High & Essex st. . . .	\$500
George W. Boutwell	Grove & Vinton sts. . . .	400
John Massey . . .	Centre . . . .	200
Isaac C. Weeks . . .	Mary A. Livermore . . . .	200
C. H. Fuller . . . .	Franklin & Green . . . .	300
Eri Upham . . . .	Upham hill . . . .	150
George H. Anderson	Lynde st. . . . .	100
Joseph Emerson . .	Converse . . . . .	100
Edward Molyneux . .	Ripley . . . . .	60
William Boyd . . . .	West . . . . .	60

## SCHOOL STATISTICS.

SCHOOLS.	Maximum Number Jan. 1. to July 1.	Average Attendance, Jan. 1 to July 1.	Maximum Number Sept. 1 to Dec. 31.	Average Attendance Sept. 1 to Dec 31.	Number of Pupils January, 1892.	Per Cent. of Attendance.	Average Age Dec. 31, 1891.	
							Yrs.	Mos.
High — First Class . . .	26	25.4	27	26.2	27	92.5	17	10
“ Second Class . . .	18	17	20	19.4	19	94.3	16	1
“ Third Class . . .	45	44.2	56	54	55	94	16	
“ Fourth Class . . .	71	69	91	86	89	94.3	15	2
Totals . . .	160		194		190			
8th grade, Centre . . .	81	74.5	95	88.8	97	94	14	4
8th & 7th gr'de Franklin . .	42	40.6	47	36.5	53	90	13	10
7th grade, Centre. . .	56	52	48	45	61	94	13	2
7th “ Essex Street, . .	40	33.8	37	33.8	40	92	13	8
7th “ Upham Hill . .			32	28.8	29	95	13	4
6th “ Centre . . .	50	44	42	37	52	87	12	
6th “ Green Street, . .			39	33	35	89	12	10
6th “ Grove “ . . .	49	42	46	42.5	45	90	12	6
6th & 6th gr'd, Essex St. .	43	36.4	45	37.1	46	92	12	1
6th & 5th “ Franklin, . .	62	50				91	12	3
5th grade, Franklin . . .			46	40.7	48	92	11	9
5th “ Grove Street, . .	51	42.7	54	43.6	56	86	11	7
5th “ Centre . . .	56	51.4	54	50.1	57	94	11	
4th “ Vinton . . .	40	34.9	39	33.8	41	89.2	10	7
4th & 3d grades, Centre, . .	58	47.2	55	46.7	59	91.2	9	2
4th & 3d “ Grove . . .	52	47.2	53	46.4	54	91	9	4
5, 4 & 3 grds. Upham Hl. .	49	36.4	51	38	52	83	9	9
4th & 3d “ Franklin . .	49	44.3	64	44.3	64	86	9	11
4th & 3d “ Converse . .	40	35.9	41	38.4	39	93	9	8
3d grade, Vinton . . .	40	33.6	45	40.1	46	89.5	9	1
2d “ “ . . .	48	34.5	52	45.3	53	86	8	6
2d & 1st gds., Centre . .	61	53	63	54	65	84	8	2
2d & 1st “ Franklin . .	45	36.8	40	31.5	62	80	8	3
2d & 1st “ Grove St.. .	53	45.3	53	42.6	54	88.7	6	6
2d & 1st “ Lynde St., . .	62	45	62	51	63	83	7	6
2d & 1st “ Converse, . .	24	22.2	27	21.7	28	81.2	7	8
2d & 1st “ Upham Hl. .	54	39.4	56	40.8	55	81	7	4
1st “ Vinton . . .	54	44.9	57	51.5	58	89	6	6
4th & 3d “ Lynde St., .	42	27.6	37	33	43	84.4	10	5
Ripley . . .	33	29.2	32	28.2	34	90	9	2
Green Street, . . .	47	39.8	51	43.7	57	89	9	2
West . . .	35	29.3	34	27.1	36	81	9	3

Total number of pupils enrolled Jan. 1, 1892, 1779.



# CHARLES FRANCIS LORING,

Born Feb. 23, 1853.

Died Jan. 26, 1892.

A Member of the School Committee  
of Melrose from March, 1886.

Resolutions Adopted by the School Committee,  
Feb. 10, 1892.

*Resolved*, That the death of the HON. CHARLES FRANCIS LORING has taken from this Board a most worthy member, from the town a faithful officer, and from us, his associates, a dear friend.

*Resolved*, That in his six years of service as a member of this committee, he displayed a genuine interest in our public schools, an intelligent conception of their needs, and sound judgment in promoting their welfare.

*Resolved*, That, knowing as we do from long association with him, the courteous bearing, the genial temperament and the warm heart of Mr. Loring, we can the better appreciate the great loss that his family have sustained, and extend to them our warmest sympathy.

*Resolved*, That these resolutions be entered in the records of this Board, and that the Secretary send a copy to the family of our deceased friend.



# WARRANT.

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*To either of the Constables of the Town of Melrose, in the County of Middlesex:* *GREETING.*

In the name of the Commonwealth of Massachusetts, you are hereby required to notify the Inhabitants of the Town of Melrose, qualified to vote in elections and Town affairs, to meet at the Town Hall, on Monday, the seventh day of March, A. D., 1892, at 7 o'clock, a. m., then and there to act on the following Articles, viz. :

ARTICLE I. To choose a Moderator.

2. To bring in their votes for Town Officers, and in answer to the question "Shall licenses be granted for the sale of intoxicating liquors in this town?" All ballots are to be furnished by the town, and will be distributed at the polls by officers duly appointed in accordance with provisions of laws accepted by the town. Polls to be kept open until 5.30 p. m.

3. To choose any other Town Officers deemed necessary, or required by law.

4. To authorize the Town Treasurer to borrow money for the purpose of meeting the demands of the town, with the approval of the Selectmen.

5. To hear and act upon the report of the Finance Committee, appointed at meeting Nov. 19, 1891.

6. To determine the amount of money to be raised and appropriated to defray town charges for the ensuing year and for payment of the town debt.

7. To fix the compensation of all officers and committees elected or appointed by the town.

8. To raise money for the use of water in hydrants, public buildings, etc., and for any other necessary expenses for the ensuing year.

9. To determine the method by which the taxes for the year shall be collected.

10. To see if the town will accept the provisions of Chapter 417 of the Acts of 1891, entitled "An act to authorize the town of Melrose to make an additional Water Loan" and authorize the issue of the bonds contemplated in the act, designate their denomination, length of time and interest thereon, and pass any other vote or votes necessary to carry out the will of the town.

11. To see if the town will authorize the Treasurer to issue Water Fund Bonds for the purpose of paying the cost of constructing and extending the water works.

12. To see what action the town will take in regard to the payment of the Water Bonds, series of 1872, \$50,000 falling due Oct. 1, 1892.

13. To see what action the town will take in regard to the payment of the Town Hall bonds \$65,000, falling due Oct. 1, 1892.

14. To see what action the town will take upon the order of the County Commissioners for the building of a highway to Stoneham, same being an extension of Perkins street.

15. To see what action the town will take in the matter of additional legislation relating to Ell pond and Spot pond brooks.

16. To see what action the town will take in relation to the further acceptance of the provisions of Chapter 370 of the Acts of the year 1891, entitled an Act to enable cities and towns to manufacture and distribute gas and electricity

"and pass any votes in connection therewith deemed expedient."

17. To hear and act upon the report of the committee appointed to investigate and report upon matters in connection with the establishing and maintaining of an electric light plant, and pass any votes deemed necessary in the premises.

18. To see if the town will remove the lock-up from the rear part of the Town Hall building to the front of the same, build additional cells, make other improvements, and raise money for the same.

19. To hear the report of the committee appointed to consider the matter of a new schoolhouse at the Highlands, and to see if the town will appropriate money to carry out the recommendations contained therein.

20. To see if the town will vote to enlarge the Vinton street schoolhouse, or provide otherwise additional school accommodations on the west side of the railroad, and appropriate money for the same, by request of the School Committee.

21. To see if the town will authorize the Water Commissioners to make contracts with any resident of the town who proposes to water the streets, upon payment to the Water Board of such sum as they deem proper, by request of the Water Commissioners.

22. To see if the town will raise the sum of \$200 for keeping in repair and decorating the graves of soldiers on Memorial Day.

23. To see if the town will provide for the protection of property and the extinguishment of fires in the easterly portion of the town, by furnishing hydrants where needed, providing suitable fire apparatus, a building in which to keep the same, determine its location, purchase land if necessary



and appropriate or borrow money for said purposes, on petition of Andrew J. Burnett and others.

24. To see if the town will furnish electric lights in the north-easterly section of the town and raise or appropriate money for the same, on petition of E. H. Moore and others.

25. To see if the town will designate as not needed for public travel and give the improvement to the Melrose Improvement society of a certain triangular piece of land lying at the westerly junction of the way called South Cedar Park, with the way called Cedar Park ; the said triangular piece being situated between the estates of A. W. Brigham, Dexter Bryant and G. C. Abbott, and being that part of said ways there located not wrought for travel, and lying wholly enclosed by such parts of said ways as are wrought for travel and containing about two hundred square feet.

26. To see what action the town will take on the order of the County Commissioners for the widening, straightening and relocation of the lines of Main street, from Mount Vernon street northerly to its junction with Green street, and raise or appropriate money for the same.

27. To see what action the town will take on the order of the County Commissioners relocating the lines of Vinton street and Franklin street and raise or appropriate money for the carrying out of said order.

28. To see what action the town will take regarding the vote passed May 6, 1861, viz. : "That the sum of fifteen dollars per month be paid to those persons having families, and the sum of ten dollars per month to those who are single men during their time of service in the war now pending," on petition of W. E. Barrett and others.

29. To see if the town will build and furnish a Hose House at Wyoming, on lot of land owned by the town and known as the Barry estate, situate corner of Main and

Lynde streets, and raise or appropriate money for the same, on petition of W. D. Fiske and others.

30. To see if the town will authorize the Selectmen to have prepared an accurate town map, and raise or appropriate money to pay for the same, on petition of William A. Burrell and others.

21. To see if the town will raise money for the purpose of building a culvert through Franklin and Ashland streets to the culvert now extending under Ashland street, on petition of George J. Bicknell and others.

32. To see if the town will appropriate the sum of two hundred and fifty dollars to defray expenses of six open air concerts by the Melrose Cadet Band during the summer of 1892, on petition of Harry Dutton and others.

33. To see if the town will amend the By-laws relating to discharging explosive compounds and the blasting of ledges within the town limits, on petition of A. M. Willis and others.

34. To see whether the town will accept the provisions of Chapter 264 of the Acts of 1886 providing for precinct voting in towns.

35. To consider and determine what action the town will take in reference to the construction of sewers in the streets of the town to be connected with the Metropolitan System of Sewerage and appropriate money for the same.

36. To see what action the town will take in regard to the obstruction and delay to travel on Emerson street, caused by the shifting of cars by the Boston & Maine Railroad.

37. To see what action the town will take in the matter of completing the widening and deepening of Ell Pond Brook, building of culverts, etc.; and raise or appropriate money for the same.

38. To see if the town will revise or amend the Town By-Laws.

39. To see if the town will appropriate the sum of \$600 for the purpose of building a sidewalk on Linwood avenue from Lynde street to Sylvan street and for the removal of the ledge on the west side of said street between Glen street and Gibbons street, on petition of Walter C. Stevens and others.

40. To see if the town will discontinue the remaining portion of old Church street (so called) that is bounded and described as follows, viz. : Northerly by the northerly line of Upham street as laid out by the County Commissioners, westerly by Stevens' place ; southerly by the estate of David R. Woodward, on petition of D. R. Woodward and others.

41. To see if the town will change the name of street now known as Emerald street to Hillside avenue, on petition of J. C. Howes and others.

42. To see if the town will change the name of street now known as Second street to Foster street, on petition of S. W. Harvey and others.

43. To see if the town will grade and repair Meridian street and appropriate the sum of \$200 therefor, on petition of George H. Bent and others.

44. To see if the town will place a fire alarm box at the corner of Park and Meridian streets, and properly light said streets, on petition of George H. Williams and others.

45. To see if the town will place a fire alarm box near the corner of Lebanon and Forest streets, and raise or appropriate money for the same, on petition of Christian Clausen and others.

46. To see if the town will appropriate money for the maintenance of an electric light at the junction of Walton

Park, West Hill ave., and Franklin street, at the Highlands, on petition of L. D. Shaw and others.

47. To see if the town will vote to extend a drain through Grove street from Lebanon street to Meridian street, put in catch basins where needed, also grade said street and raise or appropriate money for the same, on petition of Alverdo Dodge and others.

48. To see what action the town will take on the request of Edward McKenna, for re-imbursement, for losses sustained on his contract for the widening of Main street in the year 1888.

49. To see if the town will authorize the Selectmen to straighten, widen and deepen Spot pond brook from Wyoming avenue to the Stoneham line.

50. To see if the town will place a fire alarm box near the corner of Cutter and Baxter streets on petition of William N. Hughes and others.

52. To see if the town will accept the following streets as laid out by the Selectmen, and raise money for the building and grading the same if necessary.

1. Street running easterly from Tremont street, now known as Union street.

2. Street running through the Sewall Woods to be known as the Sewall Woods Road.

3. Street running from Woodland avenue and returning thereto, now known as Clifton Park.

4. Street running northerly from Howard street to Main street.

5. Street running from Green street northerly to last named street.

6. Street running from Howard street westerly to above mentioned street.

7. Street running from Porter street to Rowe street, now known as Beverly street.

8. An extension of Emerson street easterly.
9. Street running from Upham street northerly to the proposed extension of Emerson street, now known as Fletcher street.
10. Street running from the junction of Summer and Lynde streets to street called Gibbons street, known as Mystic avenue.
11. Street running from Lebanon street easterly, now known as Lynde place.
12. Street running from Grove street southerly to Lynde place or Malvern street, now known as Faxon street.
53. To hear and act upon the reports of committees and for the transaction of any other business which may legally come before this meeting.

And you are directed to serve this Warrant by posting attested copies thereof at the Town Hall, each of the Post Offices and depots in the town, not less than seven days before the day appointed for said meeting, and by leaving printed copies of the Warrant at the dwellings of the legal voters before the day of meeting.

Hereof fail not, and make due return of this Warrant, with your doings thereon, to the Town Clerk, at the time and place of said meeting.

Given under our hands this twenty-third day of February, in the year one thousand eight hundred and ninety-two.

LEVI S. GOULD,	} <i>Selectmen</i> <i>of</i> <i>Melrose.</i>
J. P. DEERING,	
C. W. HIGGINS,	

A true copy. Attest,

A. B. PIERCE, Constable.